

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

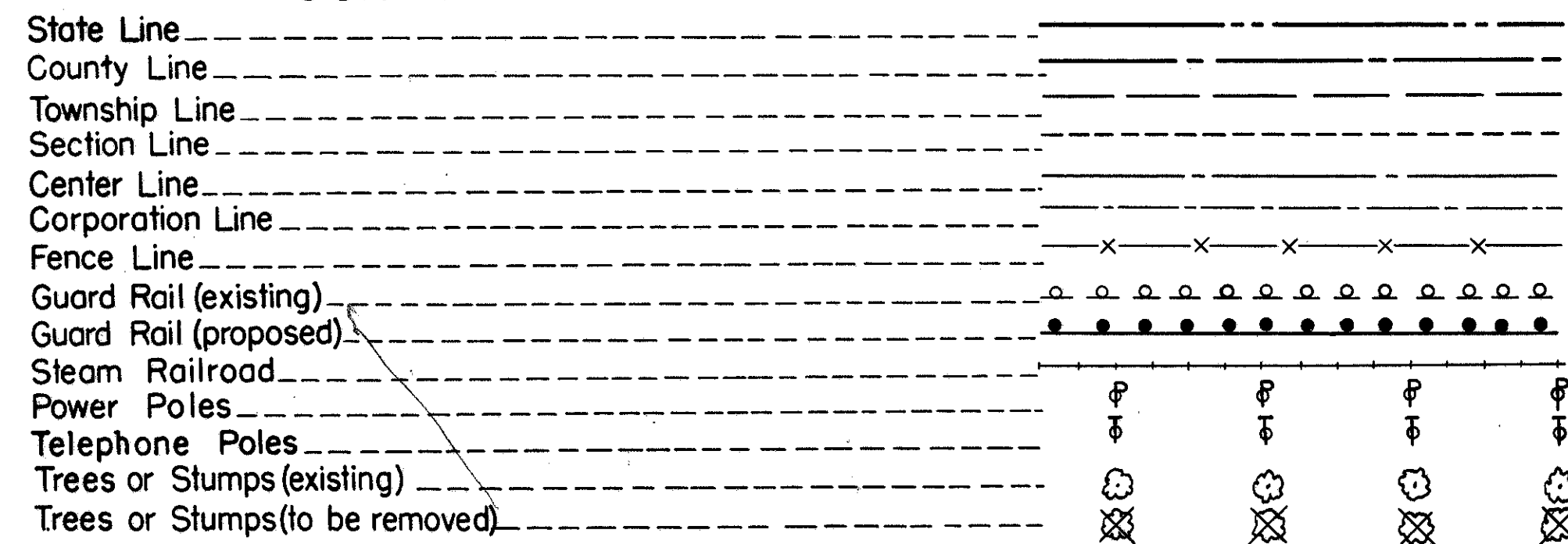
S-553 (6)

FED. RD. DIVISION	STATE	PROJECT	1
2	OHIO	S-553 (6)	33

HIGHLAND COUNTY
HIG-73-21.07

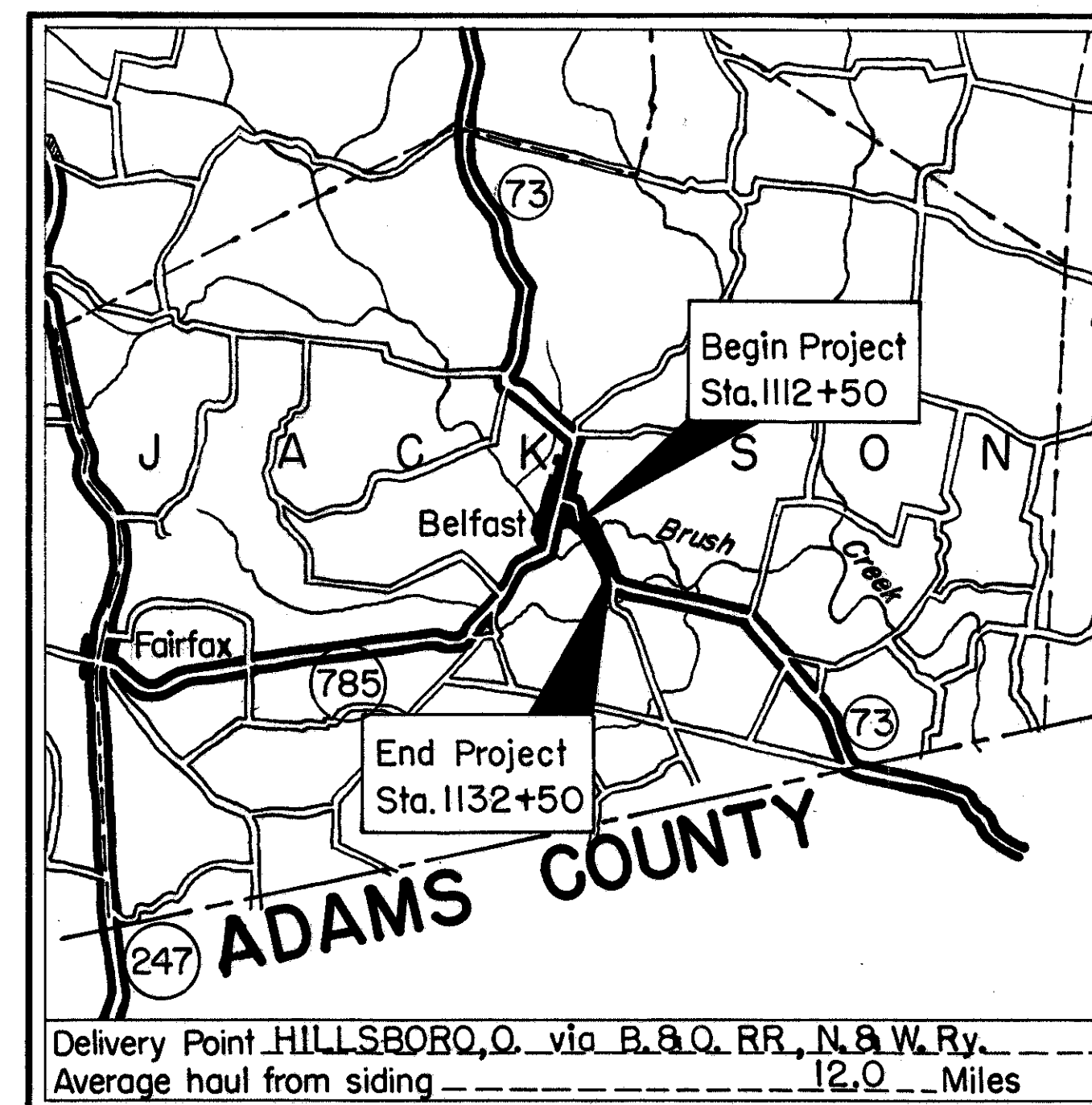
JACKSON TOWNSHIP
HIGHLAND COUNTY

CONVENTIONAL SIGNS



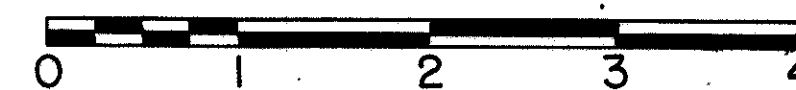
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LOCATION MAP

SCALE OF MILES



SCALE



LINE DATA

Begin Project	Sta. 1112+50
End Project	Sta. 1132+50
Net Length of Project	2000.00 Lin. Ft. or 0.378 Miles
Add for Approaches	
Sta. 1112+00 to Sta. 1112+50	50.00 Lin. Ft.
Sta. 1132+50 to Sta. 1133+00	50.00 Lin. Ft.
Net Length of Work	2100.00 Lin. Ft. or 0.397 Miles

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 maintenance and safety of traffic will be as set forth on these plans and estimates.

Approved Joseph N. Doyle P.E. 1209
Date 10-6-54 Division Deputy Director

Approved John J. Hessel
Date 11-5-54 Deputy Director of Planning & Programming

Approved Richard Orth
Date 11-1-54 Engineer of Bridges

Approved W. J. H. ...
Date 11-2-54 Engineer of Location & Design

Approved ...
Date 11-2-54 Deputy Director of Design & Construction

Approved W. J. ...
Date 11-5-54 First Assistant Director

Approved ...
Date 11-5-54 Director of Highways

CONSTRUCTION BUREAU
APR 2 1957
GROUND PHOTOLAB

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED:
DISTRICT ENGINEER _____ DATE _____

File No.	HIGHLAND COUNTY HIG-73-21.07
Date of Letting	_____ 19__
Contract No.	_____

*Accepted by B.P.R.

Supplemental Prints of Standard Construction Drawings			
* G-707	1-2-53	RI-1	6-1-53
* I-1,2,3,4&5	2-20-45	T-35	10-1-52
* I-8 C.B. 2-2-A&B	5-1-52	A-1-54	7-1-54
* I-15 N#1	2-2-53	AS-1-54	7-1-54
* I-15 N#2	2-2-53	CS-1-54.5h.1&2	7-1-54
L-3	4-1-50		
L-3-A	4-1-50	L-1	4-1-50

Supplemental Specifications	
B-119	Rev. 12-14-53
L-109.12	1-24-53
L-209.12	7-17-54
CE-107	5-21-53
T-171.19	Rev. 3-19-53
M-101.7	1-24-53

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		



HIGHLAND COUNTY
HI-73-21.07

EXISTING BRIDGE DATA

Bridge No. HI-73-212
 Type Covered Wood Truss
 Span 118'-0"
 Rdwy 16'-2"
 Condition Poor
 Skew 0°-00'
 Legal Load Reduced 75%

PROP SPIRAL DATA

PI: 1125+01.35
 Δ 26°40' RT.
 Dc 6°00'
 Ls 300'
 Ts 377.13'
 Es 30.50'
 Xc 299.26'
 Yc 15.65'
 Bc 9°00'
 Δc 8°40'
 Lc 144.44'
 Pc 954.93'

CURVE

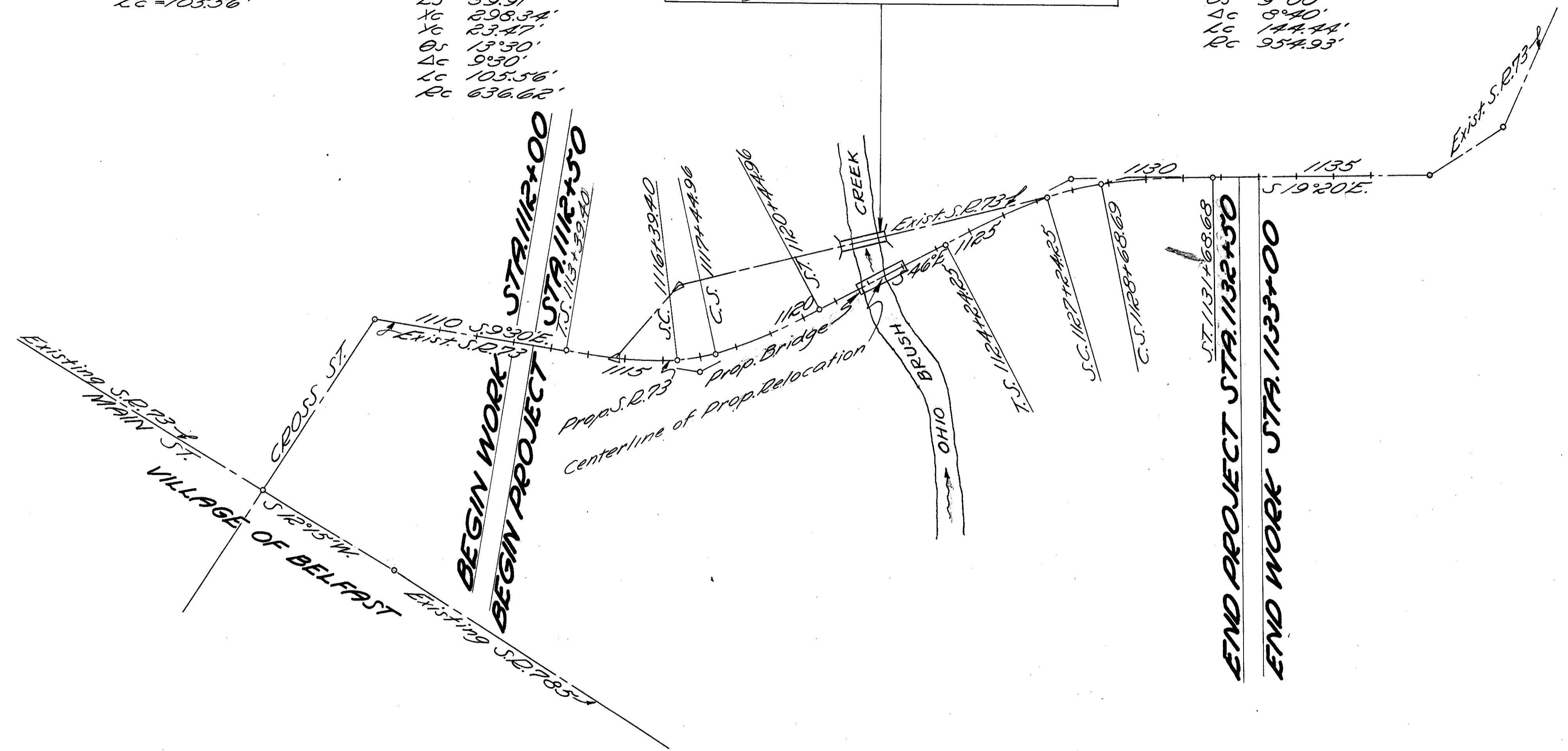
Δ = 8°40'
 Dc = 6°00'
 Lc = 144.44'

CURVE

Δ = 9°-30'
 Dc = 9°-00'
 Lc = 105.56'

PROP SPIRAL DATA

PI 1117+00.29
 Δ 36°50' LT.
 Dc 9°00'
 Ls 300'
 Ts 361.59'
 Es 39.91'
 Xc 298.34'
 Yc 23.47'
 Bc 13°50'
 Δc 9°30'
 Lc 105.56'
 Pc 636.62'



PROPOSED STRUCTURE

TYPE: Continuous concrete slab on reinf. conc substructure
 SPAN: 42'-52.5'-42' 1/2 bearings
 ROADWAY: 32' ft guard rails
 LOAD FREQUENCY: CF = 130 (50)
 SKEW: None
 SURFACE COURSE: Bituminous
 ALIGNMENT: Tangent
 APPROACH SLABS: A5-1-5A (15' Long)

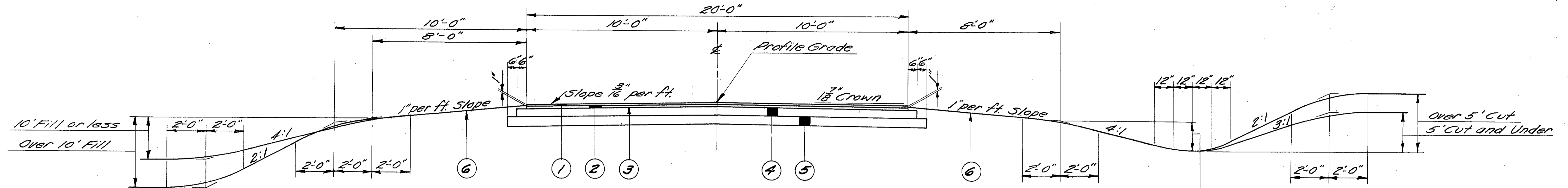
SCHEMATIC PLAN

Scale: 1" = 200'

TYPICAL SECTION

TYPE T-35 ON B-119

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



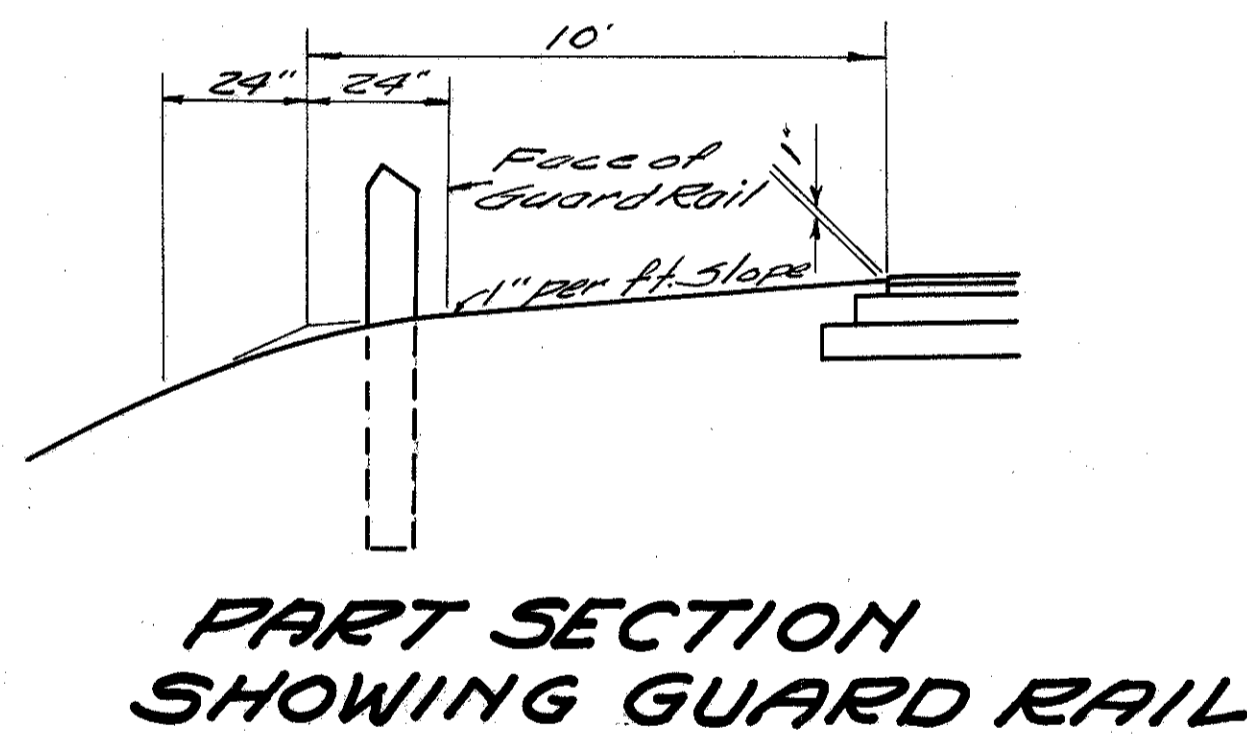
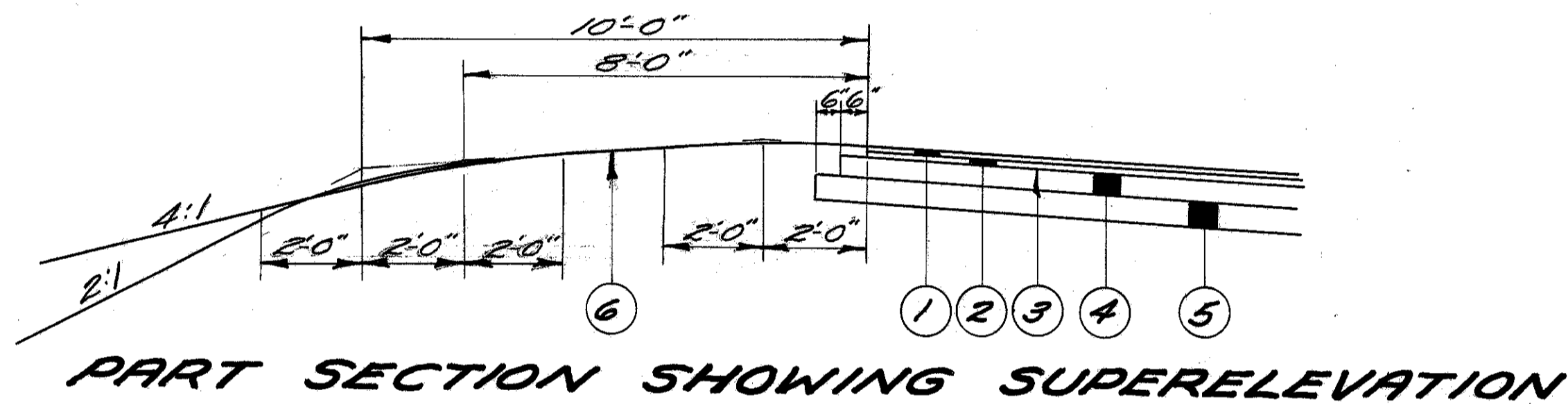
TYPICAL SECTION 'A'

The above Section applies between the following Stations:
 From Station 112+50 to Station 112+55 = 905.0 Lin. Ft.
 From Station 1123+23 to Station 1132+50 = 927.0 Lin. Ft.
 Total 1832.0 Lin. Ft.

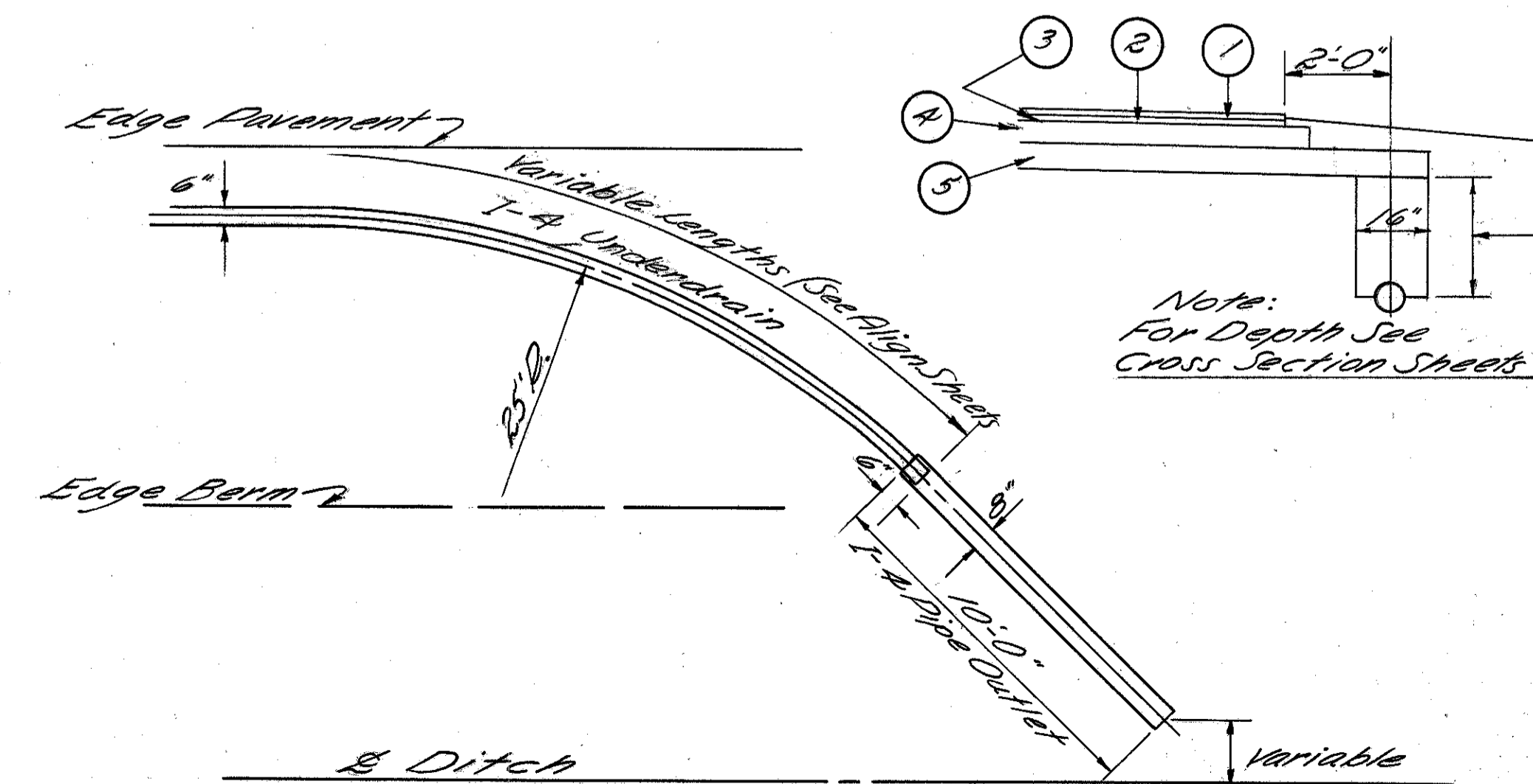
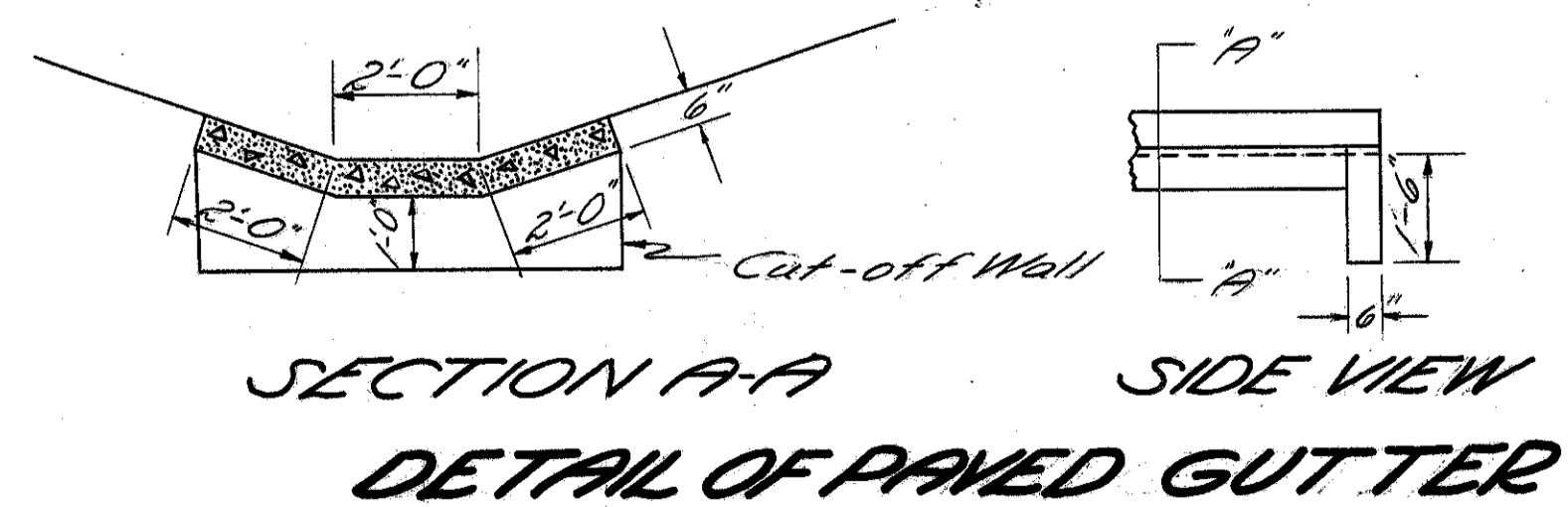
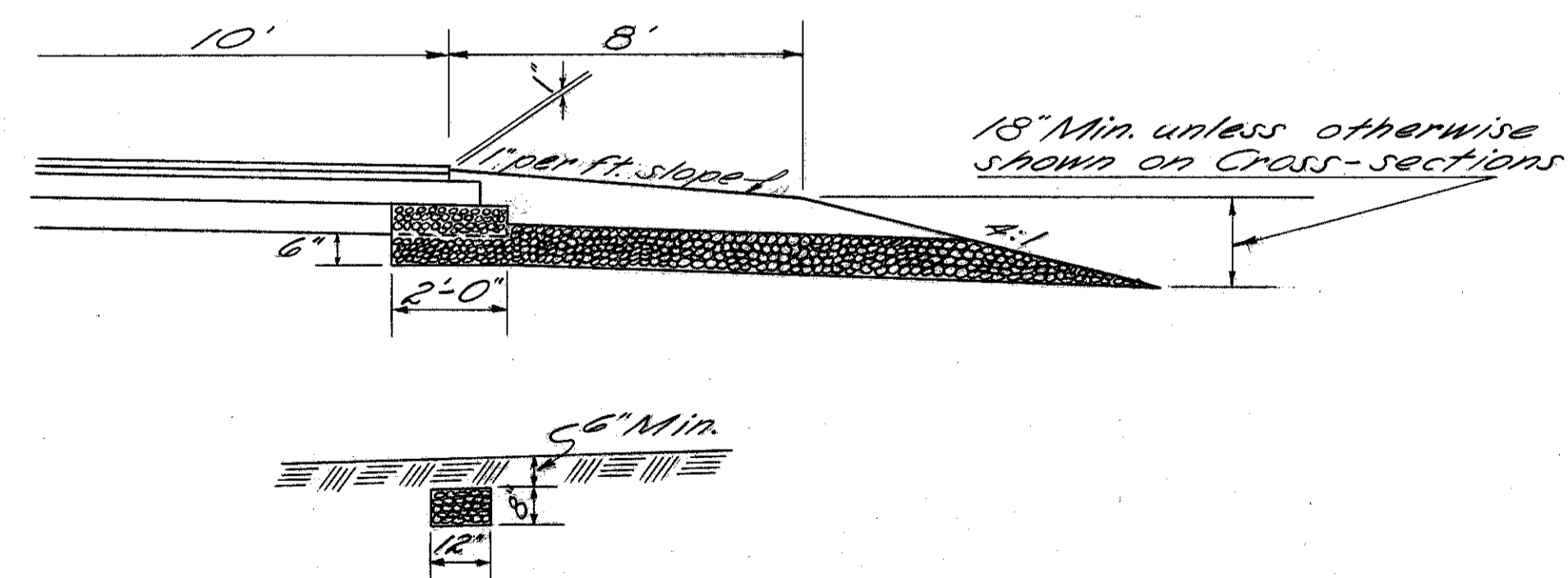
18" Minimum Unless otherwise noted on X-Sections

LEGEND

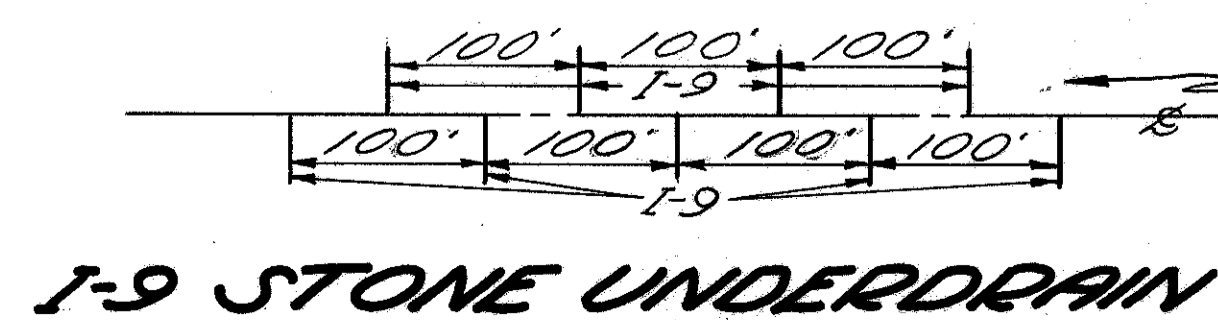
- ① Item T-35 $1\frac{1}{2}''$ Asphaltic Concrete Surface Course Type 'A'
- ② Item B-35 $1\frac{1}{2}''$ Asphaltic Concrete Leveling Course
- ③ Item T-30 Bituminous Prime Coat (Applied at the rate of 0.35 gal. per Sq. Yd.) M-5.7 RT 2 or 3 or M-5.3, Mc-0 or Mc-1
- ④ Item B-119 5" Crushed Aggregate Base Course
- ⑤ Item I-22 6" Subbase
- ⑥ Item L-9 Seeding and Protecting Type 'A'



NOTE
 For location and elevations of 6"-I-4 Underdrains see alignment sheets and Cross Sections.



PART SECTION SHOWING I-9 STONE UNDERDRAIN NO. 2



Note:
 Stone Underdrains to be placed as shown above, but not to be placed on the high side of Superelevated Curves and between Sta. 1127+00 and Sta. 1131+00

DETAIL OF PIPE OUTLET FOR I-4 UNDERDRAIN

NOTES

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

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HIGHLAND COUNTY
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GENERAL

FIELD OFFICE

The contractor shall provide a suitable "Field Office" in accordance with section 5-0.01(b), having a minimum of 200 sq. ft. of floor space. The contractor shall have a telephone installed and maintained during construction of this project.

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.

DESIGN SPEED

This project has been designed for a speed of 50 miles per hour.

TRAFFIC

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

The existing and the proposed pavement shall be used to maintain traffic whenever and wherever 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
- T-35.23 Protection of Wearing Course

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

The following is a suggested method of maintaining traffic:

Construct a temporary roadway on the left between 112+00 and 115+00. From 115+00 to 116+50 maintain traffic on the existing pavement. From 116+50 to 118+00 construct a temporary roadway on the left. An estimated amount of Aggregate and Chloride have been provided for maintenance of traffic.

The preceding is not a mandatory schedule of construction procedure. In lieu of the above, the Contractor may submit to the Division Engineer for approval a written detailed schedule of this alternate method of maintenance of traffic and construction procedure. Prior to adoption and use of an alternative schedule for the maintenance of traffic, approval shall be obtained from the Division Engineer. Additional quantities will not be provided for an alternative plan for the maintenance of traffic.

All aggregate and Calcium Chloride for Temporary Run-around Roads shall be placed as needed and as directed by the Engineer.

PAVEMENT

SUPERELEVATION

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

EXISTING PAVEMENT REMOVAL

Removal of existing non-rigid pavement is paid for as Roadway Excavation, Item E-1.

ROADWAY

ROADWAY EXCAVATION

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

REMOVAL OF TREES AND STUMPS

The number, type and size of trees and stumps shown for removal on these plans is as nearly correct as the available information permits. The State of Ohio will not be responsible for any variations found during construction. The Lump Sum bid for Item E-9, Removal of Trees and Stumps shall constitute full payment for this item, and no additional compensation will be allowed.

SEEDING AND PROTECTING ROADWAY AREAS

Quantities for seeding are calculated for the soil areas within the construction limits as shown on the cross sections and payment for seeding beyond these limits will not be allowed. (See Note in Proposal for seed mix and rate to be sown.)

EARTHWORK

In lieu of the requirements for full width construction as specified in Section E-1.05 and Section E-1.08 of the Specifications, part width construction may be performed where necessary for the maintenance of traffic.

PAVED GUTTERS

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

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

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

FERTILIZING SOD AREAS

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

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

TOE WALLS

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

LOCATION AND SIZE OF EXISTING PIPE

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

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

GUARD RAIL REMOVAL AND DISPOSAL

All guard rail listed to be removed and disposed of shall become the property of the contractor and shall be disposed of by him. Cost of removal and disposal shall be included in the unit price bid for Roadway Excavation, Item E-1.

REMOVAL GUARD RAIL POSTS ONLY

Payment for Removal and Disposal of Guard Rail Posts Only, Sta. 1120+40 to Sta. 1121+75; and Sta. 1122+90 to Sta. 1123+85, shall be included in the contract unit price bid for Roadway Excavation, Item E-1.

NOTES

ROADWAY

ROADWAY

REMOVAL (MISCELLANEOUS)

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

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

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

Backfilling shall be performed according to section E-1.08 of the Construction and Material Specifications.

Wells, cisterns, and tanks of all kinds shall be filled with broken foundation masonry, or rock placed as rock embankment, according to section E-1.08 of the Construction and Material Specifications.

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

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

LENGTH OF PIPE SPECIALS

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

Item No	Description	Assumed Length of Pipe Specials
I-4	Pipe Underdrain	2'-0"

ROADWAY EXCAVATION

The removal of six (6") inches of rock below the contemplated subgrade as required in section E-1.05 of the Construction and Material Specifications will be waived. Excavation shall be made to the line shown on the Cross-Sections, with special care to be exercised to insure adequate drainage of the subgrade.

FLARING GUARD RAIL AT BRIDGES

Guard Rail shall be flared to meet bridge railing in such a manner that the change in alignment of the guard rail shall not exceed 1:10.

EXISTING PAVEMENT REMOVAL

After the existing pavement has been removed, the old roadway shall be plowed, harrowed and dragged to a smooth grade, the old ditches filled and the entire area left in a neat condition. Cost of this work shall be included in the price bid under Item E-1, Roadway Excavation. The area shall then be seeded and mulched, Item L-9.

PRIVY VAULTS

Privy vaults shall be cleaned and filled with suitable material if they are under the roadway. Material removed these vaults shall be classified as unsuitable and shall be disposed of by the Contractor outside the limits of the right-of-way or easement lines.

The yardage of this material shall be determined by the Engineer and shall be paid for under Item E-1, Roadway Excavation.

ROADWAY EXCAVATION & BORROW

The Contractor shall conduct his grading operations in such a manner as to insure that all suitable material resulting from the various excavation items of the contract will be incorporated in the embankment.

The total quantity of borrow shown on these plans shall not be used until after all such material has been placed in embankment.

BORROW PITS

Borrow pits shall not be located less than five hundred (500) feet from any highway unless written permission is obtained from the director. The request for permission to locate a borrow pit nearer than 500 feet to any highway shall be accompanied by a sketch showing the location, depth of proposed cut, approximate lines of proposed excavation, and provision for drainage.

SILT

Silt from excavation or borrow identified as Ohio Classification A-4b and/or SHTL Class 8 (as determined by the State Highway Testing Laboratory method of test) shall be placed at least 3 feet below the surface of the subgrade when used in embankment. Principal characteristics of A-4b and SHTL Class 8 soils are 50 percent or more silt sizes and P.I. of not more than 10.

SUMMARY OF QUANTITIES

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

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HIGHLAND COUNTY
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PAVEMENT CALCULATIONS

Description & Location	See Sheet No.	T-35		B-35	T-30	B-119			I-22	I-9	I-7	*T-30
		Asphaltic Concrete Surface Course		Asphaltic Concrete Leveling Course	Bituminous Prime Coat @ 0.35 gal. per sq. yd.	Crushed Aggregate Base Course			6" Subbase	Stone Underdrain No. 2	Reinforced Concrete Approach Slab	Bituminous Tack Coat @ .10 gal. per sq. yd.
		1 1/2"	2"	5"	6"	5"	6"	6"	6"	6"	6"	6"
		Sq. Yds.	Sq. Yds.	Sq. Yds.	Sq. Yds.	Sq. Yds.	Sq. Yds.	Sq. Yds.	Lin. Ft.	Sq. Yds.	Sq. Yds.	Sq. Yds.
Typical Section 'A'												
1832.0' x 20' x 1/2	3	4,071.11		4,071.11								
1832.0' x 21' x 1/2	3				4,274.67	4,274.67						
1832.0' x 22' x 1/2	3							4,478.22				
Add for Widening Sta. 1113+39.40 to Sta. 1120+44.96 @		179.65		179.65	179.65	179.65		179.65				
Sta. 1124+24.25 to Sta. 1131+68.69		196.46		196.46	196.46	196.46		196.46				
Extra Material for I-4 Underdrain								134.52				
Add for Drives	6		97.9				104.6	501.7				
Approach Slabs		133.40							73.3		66.7	66.7
To be used as directed by the Engineer									390.0			
Sub-Total		4580.62	97.9	4447.22	4650.78	4755.38	501.7	5062.15	390.0	66.7	66.7	
Conv. to C.Y. Gals. etc.		159.0	5.4	154.4	1627.8	660.5	83.6	843.7			6.7	
Total		159.0	5.4	154.4	1627.8	660.5	83.6	843.7	390.0	66.7	6.7	
			164.4			744.1						

Note: Asphaltic Conc. Surface Course to be placed 2" thick on Approach Slabs.

* See Note in Proposal

DRIVES & APPROACHES

See Sheet No.	Station	Side	T-35	B-119		I-1			E-12					
			2" Asphaltic Concrete Surface Course	Crushed Aggregate Base Course		Pipe for Driveways			Removal of Existing Pipe					
			Sq. Yds.	5"	6"	15"	18"	21"	6"	8"	10"	12"		
10	1112+71.5	RT.			73.0	26'								
10	1115+25	LT.									30'	27'		
10	1117+58	LT.			138.3					50'				
10	1117+58	RT.			151.7									
11	1124+00	RT.			69.0			28'						
12	1130+66.3 (M.B.)	RT.	42.2	45.6								12'		
12	1130+33	LT.			69.7									
12	1131+60	RT.	55.7	59.0								19'		
Total			* 97.9	* 104.6	* 501.7			54	55	50	19	30	12	27
														88

* Carried to Pavement Calculation Box.

ROADWAY DRAINAGE

See Sheet No.	Station	Side	I-4	I-5		I-4	I-3	I-3	I-3	E-12
			6" Pipe Underdrain	Pipe Specials		8" Pipe Outlet for Underdrain	12" Pipe for Roadway Drainage	2-2-A.C.B. Modified No Window Openings	Removal of Existing Pipe 3"	
			Lin. Ft.	6" T	6" 90	Lin. Ft.	Lin. Ft.	Each	Lin. Ft.	
11&12	1127+00 to 1131+00	RT.	400.0'			10.0'				
11&12	1127+50 to 1131+00	LT.	350.0'							
11	1127+50	RT.	28.0'	1	1					
12	1130+01.2 to 1130+67.3	RT.					70			
12	1130+68.3	RT.						1		
12	1130+69.3 to 1131+45	RT.					76			
12	1131+45 to 1131+73	RT.							28.0'	
10	1117+42	RT.				50				
12	1131+26.3	RT.								2
Total			778.0	1	1	60.0	146.0	28.0	1	2
							174.0			

EROSION CONTROL

See Sheet No.	Station to Station	Side	L-9 Seeding & Protecting Type 1A'		L-10 Sodding		I-14 Paved gutter 6' Wide	L-9 Commercial 1st Font. (10-6-4)	L-9 Agricultural Ground Limestone
			6'		10'		Lin. Ft.	Ton	Ton
			Sq. Yds.	Sq. Yds.	Sq. Yds.	Sq. Yds.	Lin. Ft.	Ton	Ton
10	1112+00 to 1115+70	LT.		246.67					
10	1115+70 to 1116+25	LT.				53.0			
10	1116+25 to 1117+40	LT.		76.67					
10	1112+00 to 1112+55	RT.		36.67					
10	1113+00 to 1115+68	RT.		188.67					
10	1115+68 to 1116+55	RT.				87.0			
10	1116+55 to 1117+13	RT.		38.67					
11	1121+52 to 1122+00	LT.				18.0			
11	1122+77 to 1123+22	LT.				45.0			
11	1123+22 to 1129+00	LT.		325.83					
11	1121+53 to 1122+05	RT.				22.0			
11	1122+79.5 to 1123+22	RT.				42.5			
11	1123+22 to 1123+80	RT.					64.44		
11	1124+06 to 1124+24.25	RT.					20.28		
11&12	1124+24.25 to 1130+02.2	RT.		411.97					
15	1112+00 to 1121+52	RT.		717.3					
20	1122+32.75 to 1133+00	RT.		667.0					
	8+71 to 11+35	RT.		41.0					
10	1117+91 to 1118+00	LT.		6.0					
10	1117+61 to 1117+70	RT.		6.0					
Total			14,253	1397.15	84.72	269.5	1.42	7.08	
				1481.87					

REMOVAL OF TREES & STUMPS

Item E-9 - Lump

CONCRETE STEPS

Station	Side	I-3 Conc. Steps 15" Treads 5" Rise
		Lin. Ft.
Station 1130+61.3	RT.	36
Total		36

SUMMARY OF QUANTITIES

GUARD RAIL			
See Sheet No	Station to Station	Side	I-15 Guard Rail
			Lin. Ft.
10	1116+33 - 1117+93	Rt.	100.00
10	1116+93 - 1117+43	Lt.	50.00
11	1121+41.97 - 1123+41.97	Rt.	200.00
11	1121+42.27 - 1123+46.27	Lt.	200.00
	Deduct for Bridge R&L		276.00
Total			274.00

EXCAVATION & EMBANKMENT						
See Sheet No	Station to Station	Side	E-1 Roadway Excavation	Roadway Embankment	Embankment + 20%	E-4 Borrow
			Cu. Yd.	Cu. Yd.	Cu. Yd.	Cu. Yd.
10	1112+00 - 1121+82		4240	12431		
11	1122+92.75 - 1133+00		6156	2469		
Total			10396	14900	17880	7484

BORROW CALCULATION

Embankment + 20%	17880 Cu. Yd.
Roadway Excavation, Item E-1	10396 Cu. Yd.
Gross Borrow, Item E-4	7484 Cu. Yd.
Available to reduce borrow	
Channel Excavation, Item E-3	1071 Cu. Yd.
Net Borrow, Item E-4	6413 Cu. Yd.

HIG-73-SP01

GENERAL SUMMARY

D E S C R I P T I O N

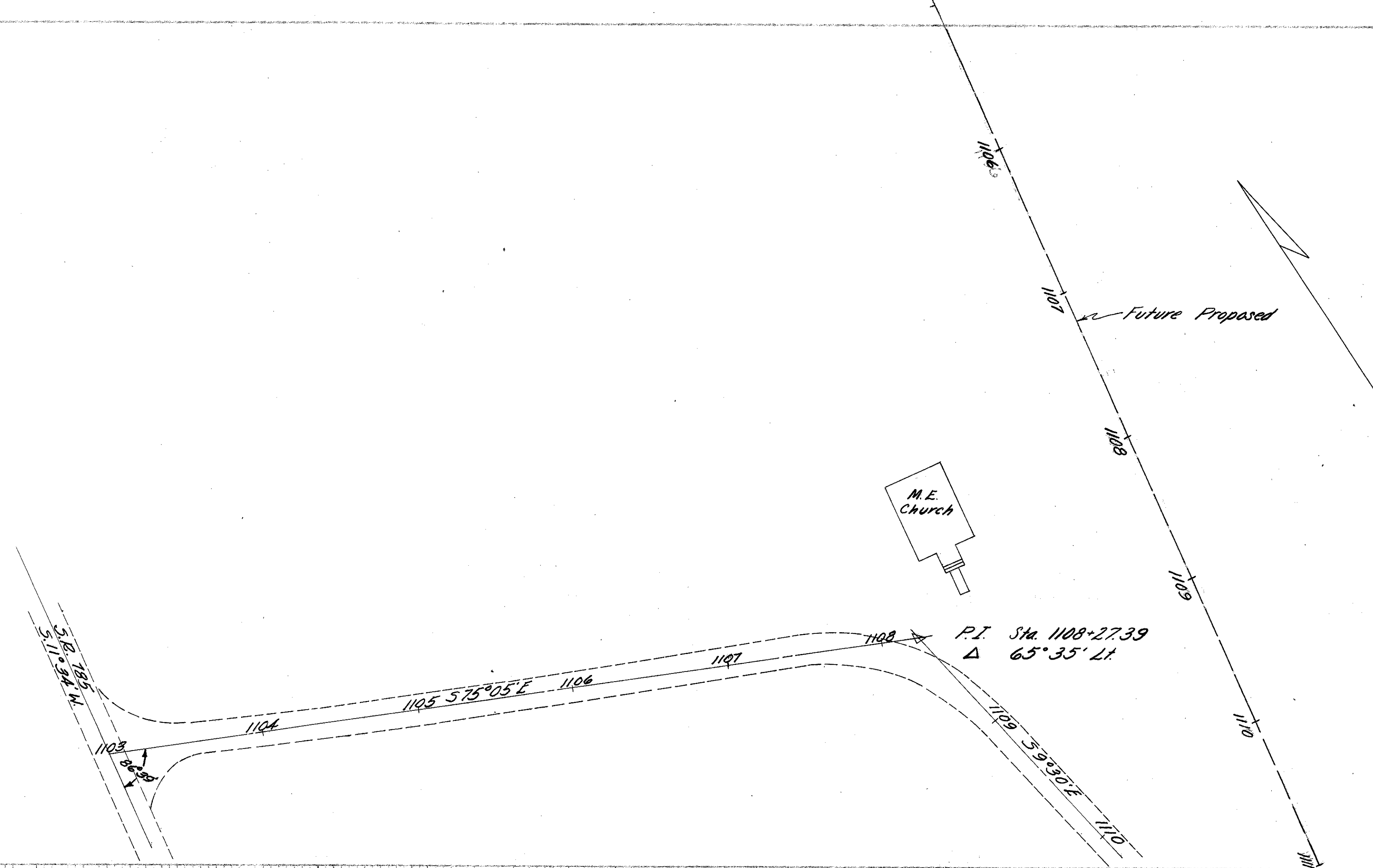
ROADWAY

ITEM NO.	QUANTITY TYPE CODE No. 6201	UNIT	DESCRIPTION
E-1	10396	Cu. Yd.	Roadway Excavation
E-1	4514	Sq. Yd.	Compacted Subgrade
E-4	6413	Cu. Yd.	Barrow
E-9	Lump	Lump	Removal of Trees and Stumps
E-11	87	M. Gals.	Water
I-15	274	Lin. Ft.	Guard Rail Steel Beam Type (dage)
L-9	14253	Sq. Yd.	Seeding and Protecting, Type "P", As Per Plan
L-9	142	Tons	Commercial Fertilizer (10-6-4)
L-9	708	Tons	Agricultural Ground Limestone
L-10	1452	Sq. Yd.	Sodding
E-12	90	Lin. Ft.	Pipe Removed (15" and under)
I-1	54	Lin. Ft.	15" Pipe for Driveways
I-1	55	Lin. Ft.	18" Pipe for Driveways
I-1	50	Lin. Ft.	21" Pipe for Driveways
I-3	174	Lin. Ft.	12" Pipe for Roadway Drainage
I-4	778	Lin. Ft.	6" Underdrains
I-4	60	Lin. Ft.	8" Pipe Outlets for Underdrains
I-5	2	Each	6" Pipe Specials for Underdrains
I-8	1	Each	MAN # 2-2-A Catch Basin
I-9	390	Lin. Ft.	Stone Underdrains, N ^o 2
I-14	270	Lin. Ft.	Daved Outter, as per plan
PAVEMENT			
T-35	165	Cu. Yd.	Asphaltic Concrete Surface Course Type "A" (85-100)
B-35	155	Cu. Yd.	Asphaltic Concrete Leveling Course (85-100)
T-30	1628	Gals.	Bituminous Prime Coat, Sec. M-5.7 RT-2 or 3 or Sec. M-5.3, Mc-0 or Mc-1
T-30	7	Gals.	Bituminous Tack Coat, As Per Plan
B-110	744	Cu. Yd.	Crushed Aggregate Base
I-22	844	Cu. Yd.	Subbase
I-7	67	Sq. Yd.	Reinforced Concrete Approach Slabs
STRUCTURE OVER 20 FOOT SPAN			
See Sheet No. 28			
Special	Lump	Lump	Maintaining Traffic, See Note on Sheet No. 4

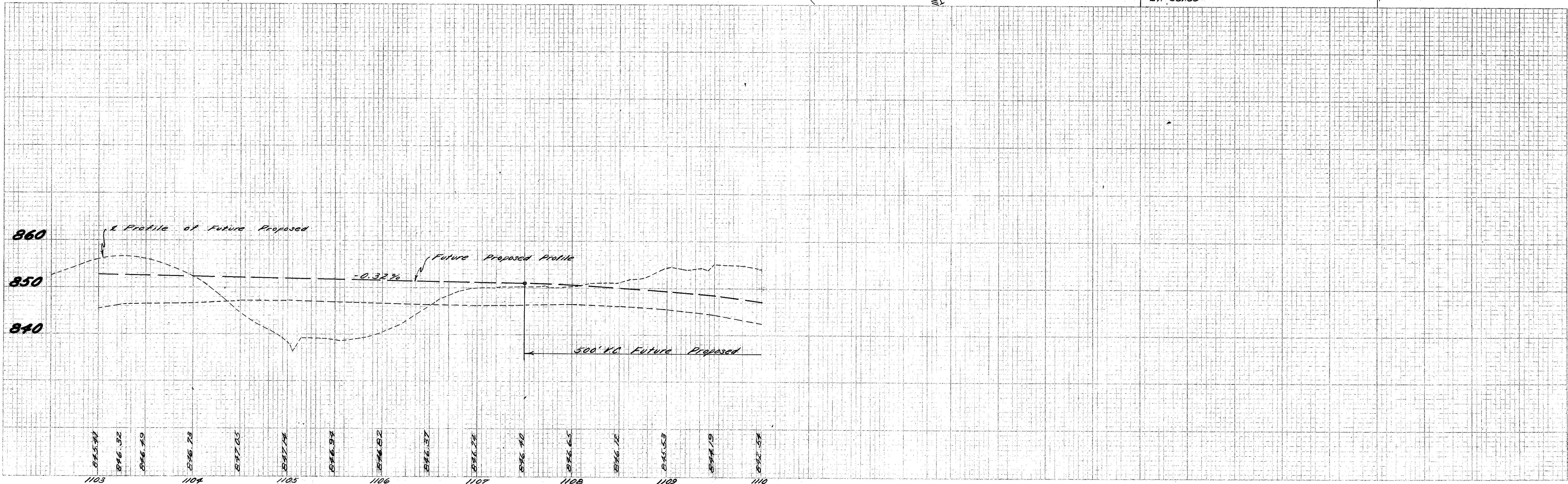
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

9
33

HIGHLAND COUNTY
H16-73-21.07



BENCH MARK
B.M. \square cut on SW. Corner of Bottom of Step of M.E. Church, Belfast, Ohio, 110' Lt. E Sta. 1108+30 Lt. 851.39

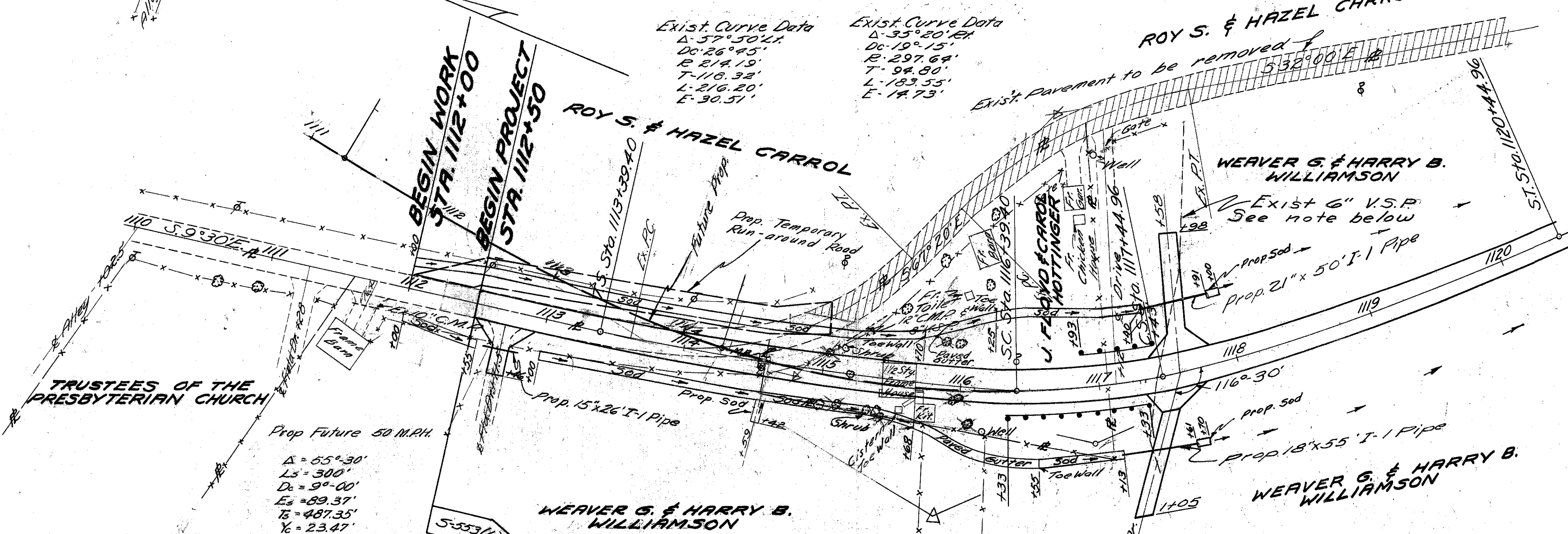
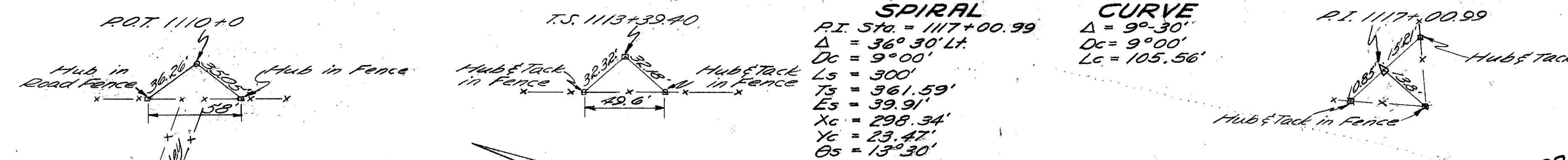


STA. 1103-00 TO STA. 1110+00

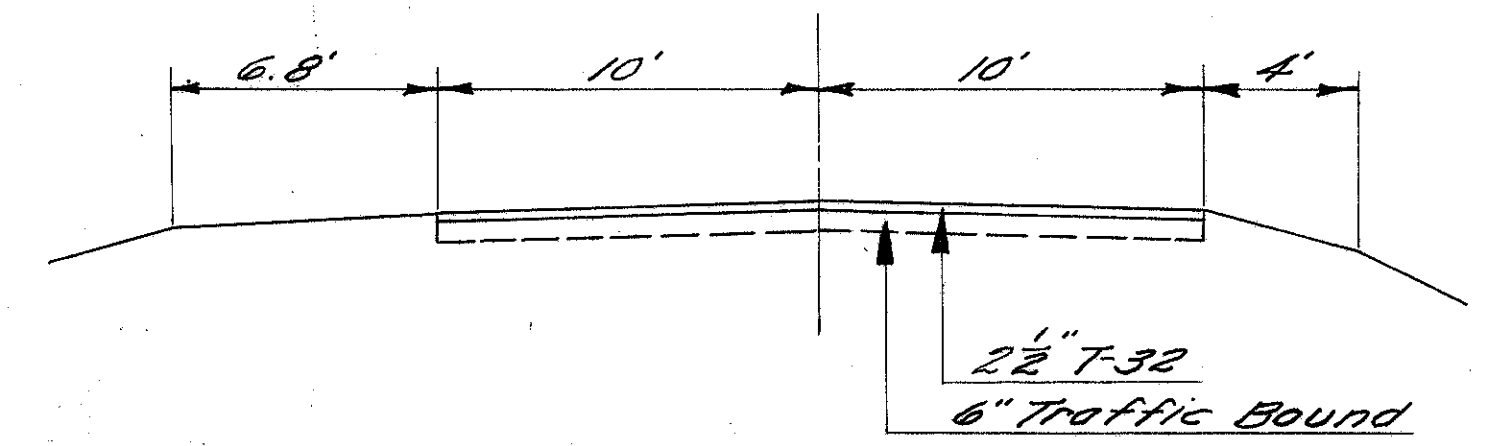
HIGHLAND COUNTY
HIG-73-2107

UTILITY OWNERS

- Ohio Bell Telephone Co. Cleveland, Ohio.
- Inter County Rural Electrification Cooperative Association Oak St. Hillsboro, Ohio.

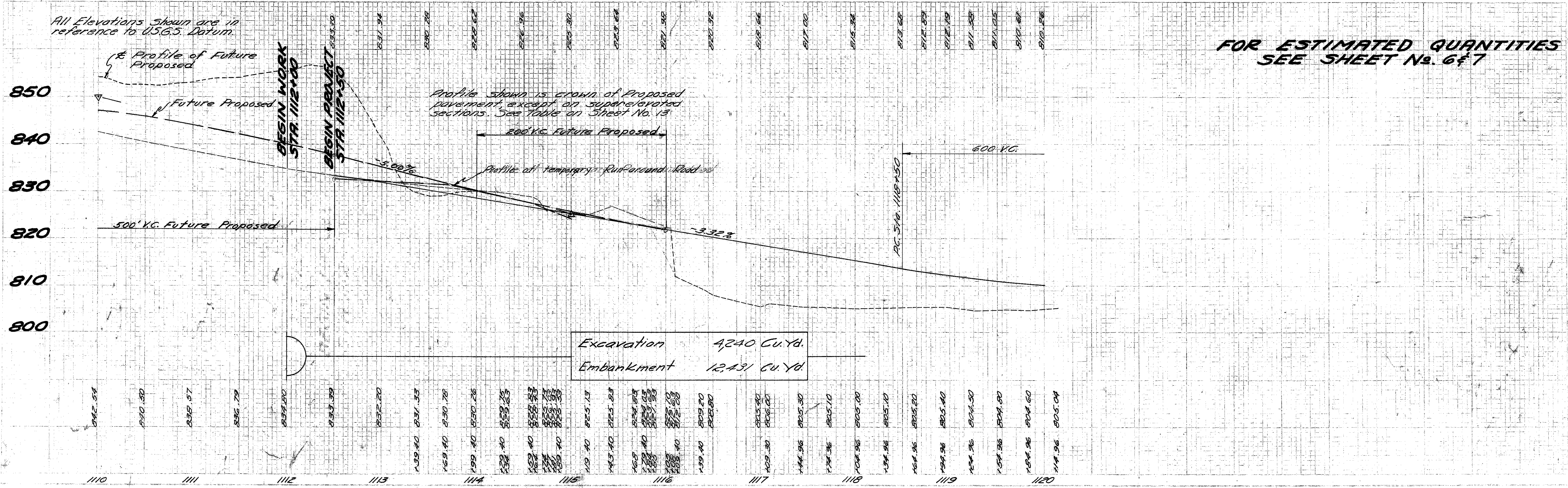


Note: Marker will be furnished and erected on the right by the State before acceptance of this project



TYPICAL SECTION OF EXISTING PAVEMENT AT BEGINNING OF PROJECT

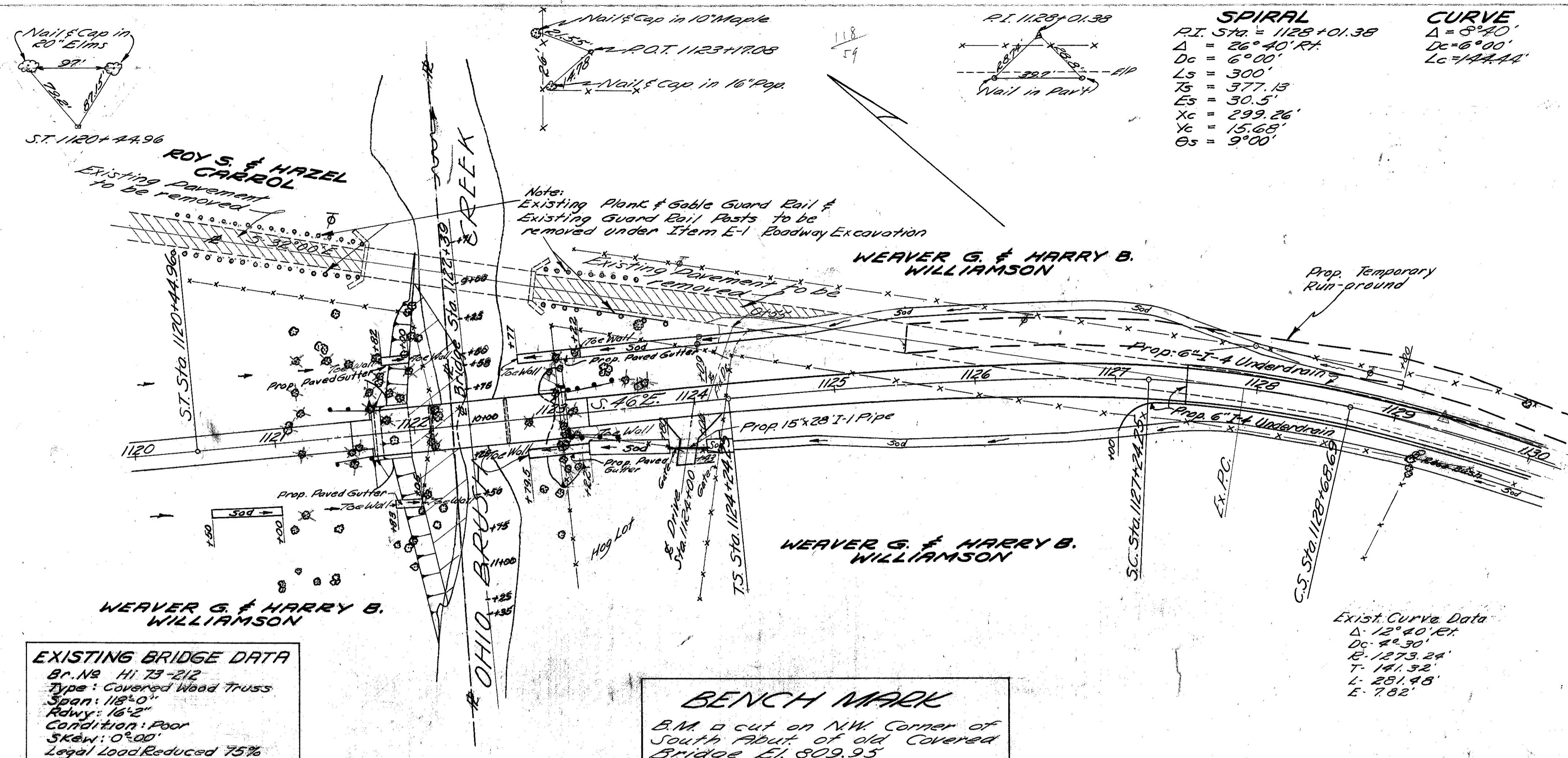
Note: 50 Lin. Ft. of Item I-4 8" pipe outlet has been provided in the estimated quantities to be placed at the direction of the engineer to provided for the drainage of this pipe



FOR ESTIMATED QUANTITIES SEE SHEET No. 6 & 7

SPIRAL
 P.I. Sta. = 1128+01.38
 $\Delta = 26^{\circ}40' RT.$
 $D_c = 6^{\circ}00'$
 $L_s = 300'$
 $L_s = 377.15'$
 $E_s = 30.5'$
 $X_c = 299.26'$
 $Y_c = 15.68'$
 $O_s = 9^{\circ}00'$

CURVE
 $\Delta = 8^{\circ}40'$
 $D_c = 6^{\circ}00'$
 $L_c = 444.44'$

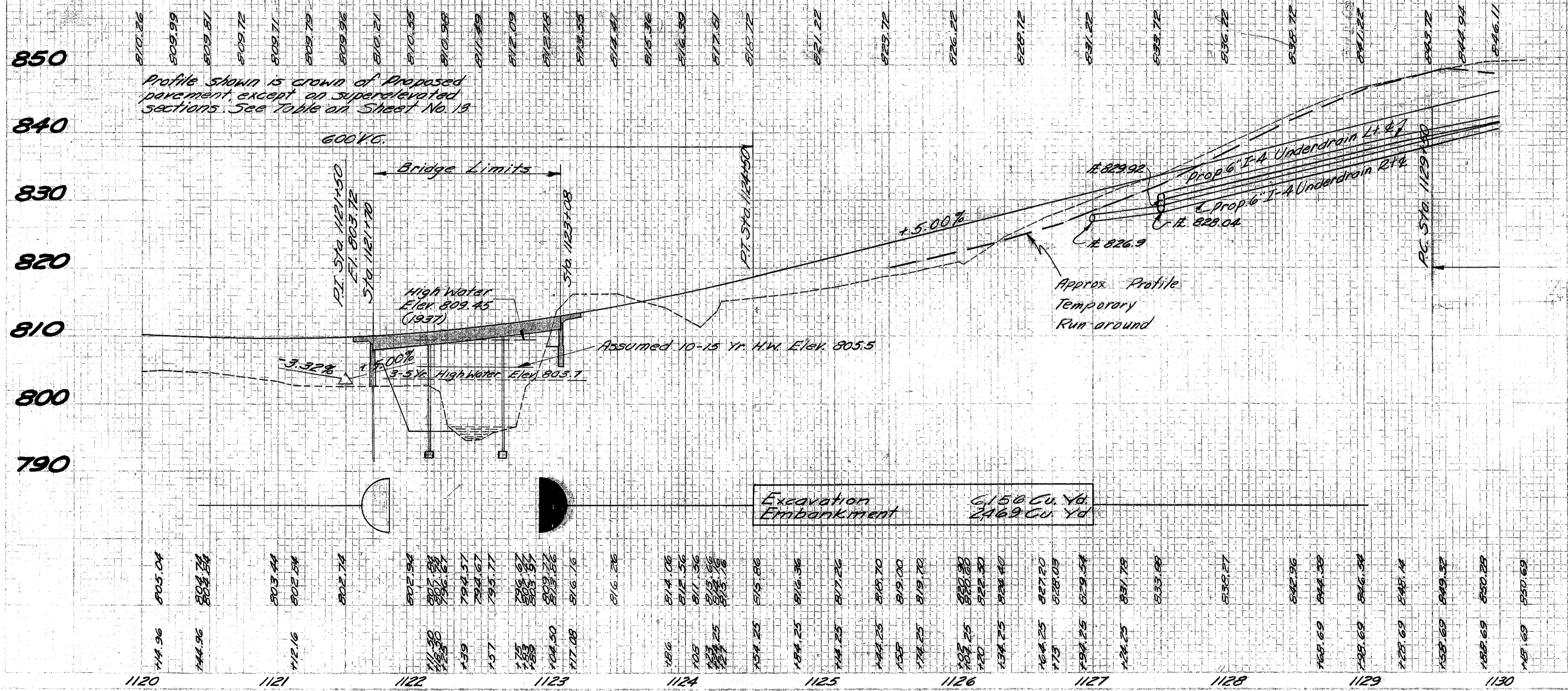


EXISTING BRIDGE DATA
 Br. No. HI 73-212
 Type: Covered Wood Truss
 Span: 118'-0"
 Rdwy: 16'-2"
 Condition: Poor
 Skew: 0°00'
 Legal Load: Reduced 75%

BENCH MARK
 B.M. is cut on NW Corner of South Abut. of old Covered Bridge E.I. 809.95

PROPOSED STRUCTURE
 Type: Continuous concrete slab on reinforced concrete substructure
 Span: 42'-52.5"-42' 1/2" bearings
 Roadway: 32' w/ guard rails
 Load Frequency: CE=130 (51)
 Skew: None
 Surface Course: Bituminous
 Alignment: Tangent
 Approach Slabs: A5-1-54 (15'-0" Long)

Exist. Curve Data
 $\Delta = 12^{\circ}40' RT.$
 $D_c = 4^{\circ}30'$
 $L_c = 1573.24'$
 $T = 141.32'$
 $L = 251.48'$
 $E = 7.02'$

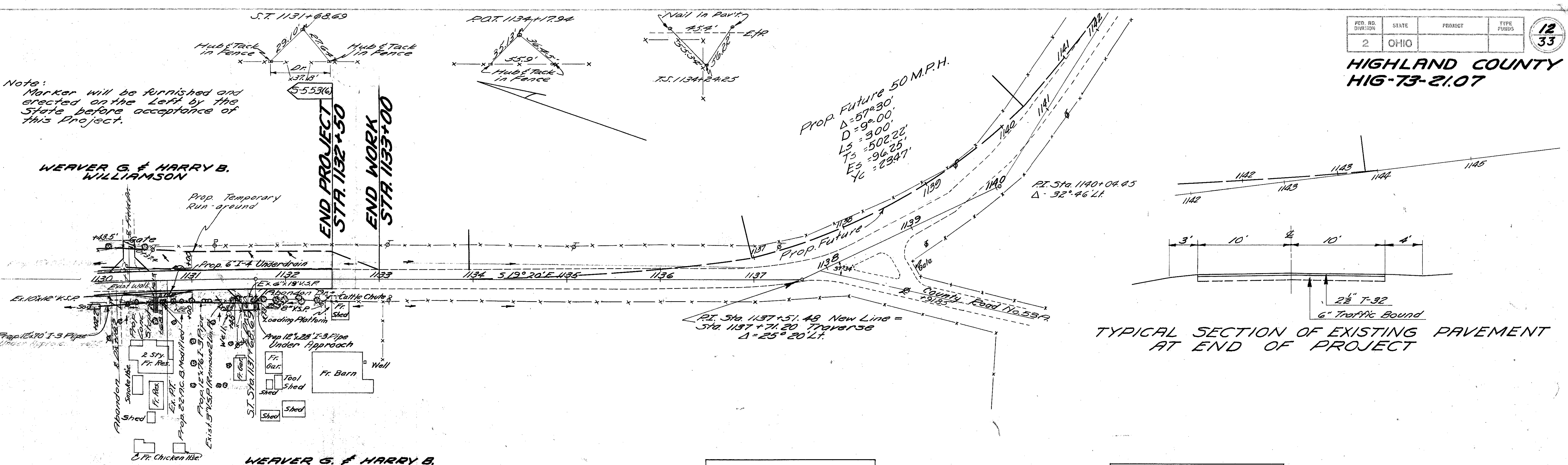


**FOR ESTIMATED QUANTITIES
SEE SHEET No. 6 of 7**

Excavation 615.0 Cu. Yd.
 Embankment 246.9 Cu. Yd.

**HIGHLAND COUNTY
HIG-73-21.07**

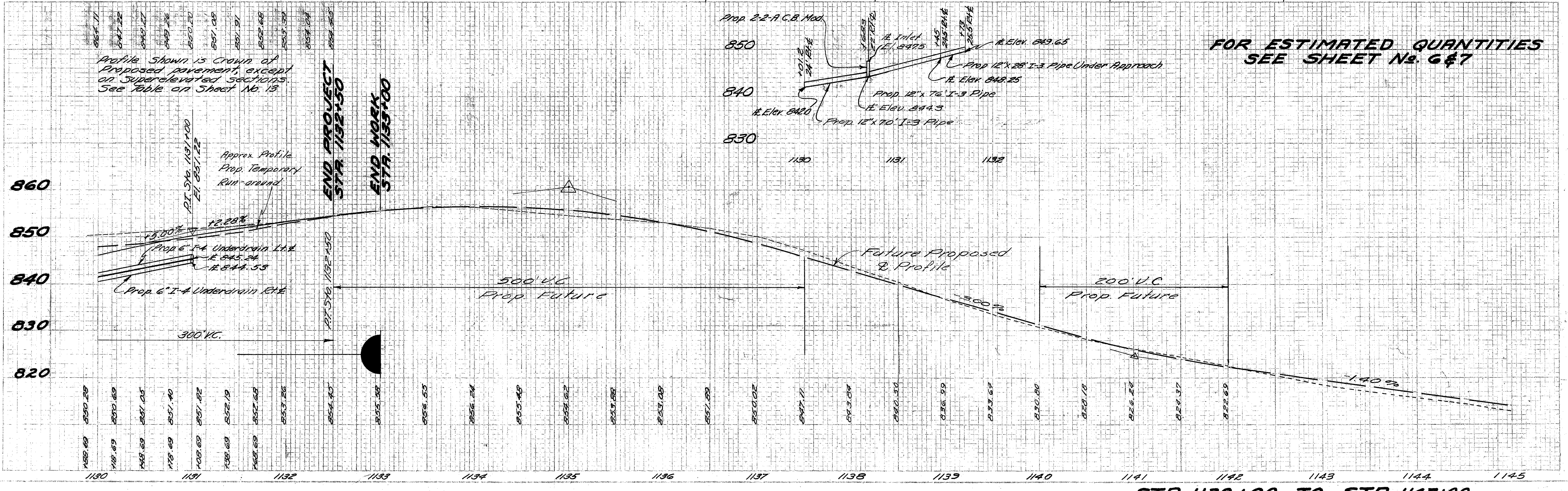
Note:
Marker will be furnished and erected on the left by the State before acceptance of this Project.



TYPICAL SECTION OF EXISTING PAVEMENT AT END OF PROJECT

BENCH MARK
Spike Nail in 8" 33' Lt.
& Sta. 1137+29
Elev. 848.88

BENCH MARK
Spike in 8" 28.5' Lt. &
Sta. 1147+75 Elev. 811.13



FOR ESTIMATED QUANTITIES
SEE SHEET No. 6 & 7

PAVEMENT ELEVATIONS

$\Delta = 36^{\circ}30'LT$
300' Spiral $Dc = 9^{\circ}00'$
T.S. Sta. 1113+39.40 C.S. Sta. 1117+44.96
S.C. Sta. 1116+39.40 S.T. Sta. 1120+44.96

Elevation Lt. Edge	Width	Station	Center Elevation	Width	Elevation Rt. Edge
832.98	10.00	1112+50	832.39	10.00	833.12
832.48		+75	832.80		832.62
832.46		+75	832.75		832.61
831.78		1113+00	831.94		831.84
830.95		+25	831.11		831.08
830.47	10.00	+39.40	830.63		830.63
830.12	10.14	+50	830.28		830.33
829.48	10.40	+69.40	829.64		829.79
829.35	10.45	+73.40	829.51		829.68
829.29	10.47	+75			829.63
828.46	10.81	1114+00			828.92
827.62	11.14	+25			828.22
827.47	11.20	+29.40			828.09
826.79	11.47	+50			827.51
826.48	11.60	+59.40			827.25
825.96	11.81	+75			826.81
825.13	12.14	1115+00			826.10
824.49	12.40	+19.40			825.56
824.30	12.47	+25			825.40
823.47	12.81	+50			824.69
822.87	13.05	+68			824.18
822.63	13.14	+75			823.99
821.63	13.54	1116+05			823.14
821.48	13.60	+09.40			823.01
820.97	13.81	+25			822.58
820.49	14.00	+39.40			822.17
820.14		+50			821.82
819.31		+75			820.99
818.48		1117+00			820.16
817.65		+25			819.33
816.99	14.00	+49.6			818.67
816.82	13.93	+50			818.47
815.99	13.60	+75			817.52
814.99	13.20	1118+04.96			816.37
814.34	12.93	+25			815.61
813.51	12.60	+50			814.65
813.03	12.40	+64.96			814.10
812.72	12.27	+75			813.74
812.02	11.93	1119+00			812.91
811.42	11.60	+24.96			812.19
810.88	11.27	+50			811.52
810.44	10.93	+75			810.96
810.30	10.80	+84.96			810.76
810.10	10.60	1120+00			810.48
809.83	10.27	+25	809.99		810.09
809.69	10.00	+49.6	809.85		809.85
809.65		+50	809.81		809.78
809.56		+75	809.72		809.63
809.55		1121+00	809.71		809.56
809.59		+10.96	809.75		809.59
809.63		+25	809.79		809.63
809.80		+50	809.96		809.80
810.05	10.00	+75	810.21	10.00	810.05

$\Delta = 26^{\circ}40'RT$
300' Spiral $Dc = 6^{\circ}00'$
T.S. Sta. 1124+24.25 C.S. Sta. 1128+68.69
S.C. Sta. 1127+24.25 S.T. Sta. 1131+68.69

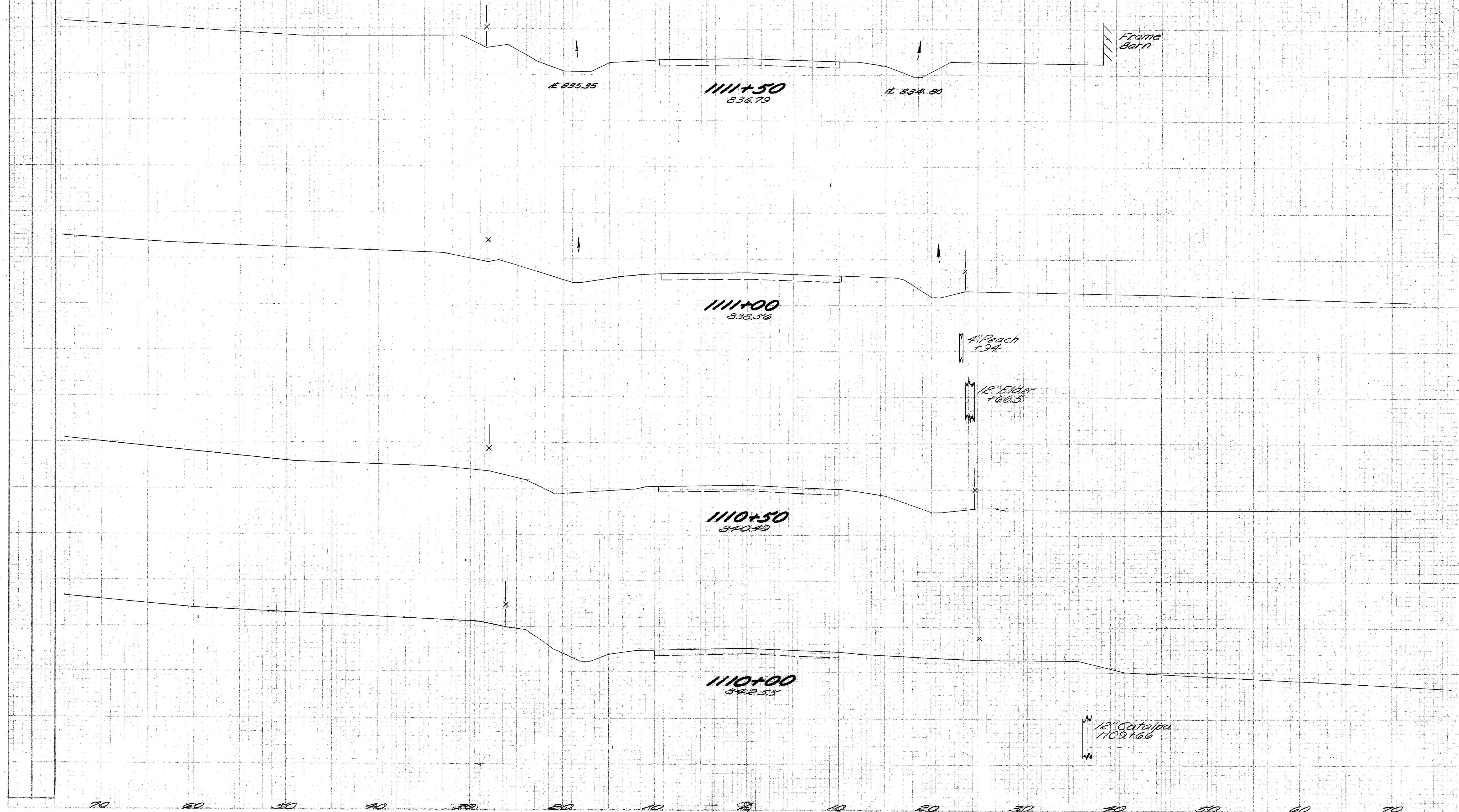
Elevation Lt. Edge	Width	Station	Center Elevation	Width	Elevation Rt. Edge
814.56	10.00	1123+58.25	814.72	10.00	814.56
815.24		+75	815.36		815.20
816.33		1124+00	816.39		816.23
816.70		+08	816.74		816.38
817.49		+24.25	817.49	10.00	817.33
818.85		+50	818.72	10.34	818.56
819.30		+58.25	819.13	10.45	818.97
820.22		+75		10.68	819.81
820.73		+84.25		10.80	820.27
821.60		1125+00		11.01	821.05
822.97		+25		11.34	822.30
824.03		+44.25		11.60	823.26
824.35		+50		11.68	823.55
825.72		+75		12.01	824.80
827.33		1126+04.25		12.40	826.26
828.47		+25		12.68	827.30
829.85		+50		13.01	828.55
830.63		+64.25		13.20	829.25
831.22		+75		13.34	829.79
832.60		1127+00		13.68	831.04
833.91		+24.25		14.00	832.25
835.22		+50			833.54
836.47		+75			834.79
837.72		1128+00			836.04
838.97		+25			837.29
840.22		+50			838.54
841.15		+68.69		14.00	839.47
841.44		+75		13.91	839.79
842.50		+98.69		13.60	840.97
842.56		1129+00		13.58	841.04
843.69		+25		13.25	842.29
845.20		+58.69		12.80	843.98
845.91		+75		12.58	844.77
846.95		1130+00		12.25	845.94
847.69		+18.69		12.00	846.77
847.94		+25		11.92	847.05
848.86		+50		11.58	848.10
849.85		+78.69		11.20	849.23
850.54		1131+00		10.92	850.03
851.30		+25		10.58	850.92
851.58		+34.69		10.45	851.25
851.69		+38.69	837.54	10.40	851.38
852.49		+68.69	852.49	10.00	852.33
852.66		+75	852.68		852.52
853.31		1132+00	853.39		853.23
853.52		+25	854.04		853.88
853.98		+34.69	854.25		854.07
854.13	10.00	+50	854.45	10.00	854.30

Seeding
End Sq
Width Yds.

FIG. NO. 2	STATE OHIO	PROJECT HIGHLAND COUNTY HIG-73-21.07	TYPE Paved	14 33
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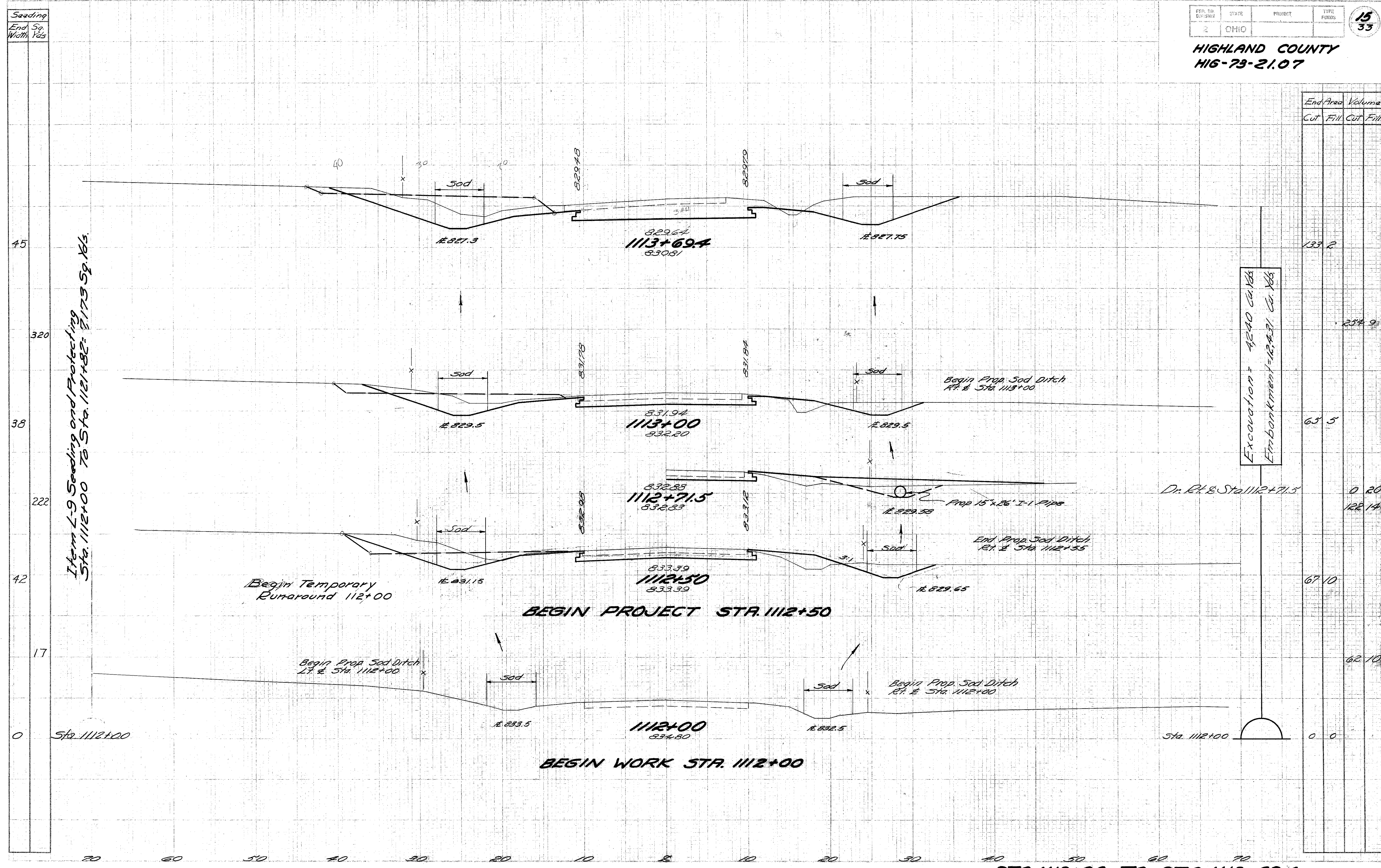
HIGHLAND COUNTY
HIG-73-21.07

End Area Volume			
Cut	Fill	Cut	Fill

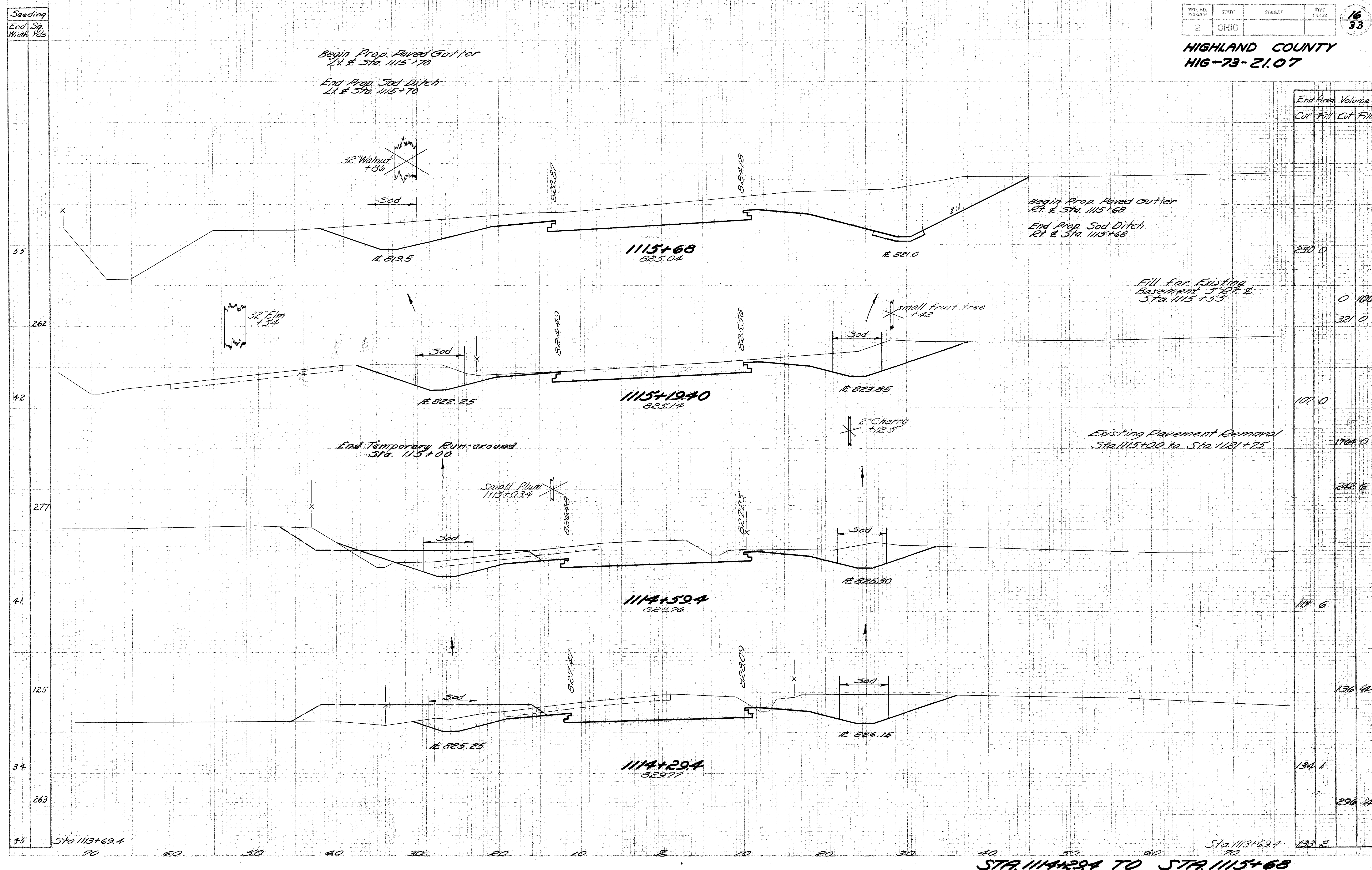


STA. 1110+00 TO STA. 1111+50

HIGHLAND COUNTY
H16-73-21.07



HIGHLAND COUNTY
HIG-73-21.07

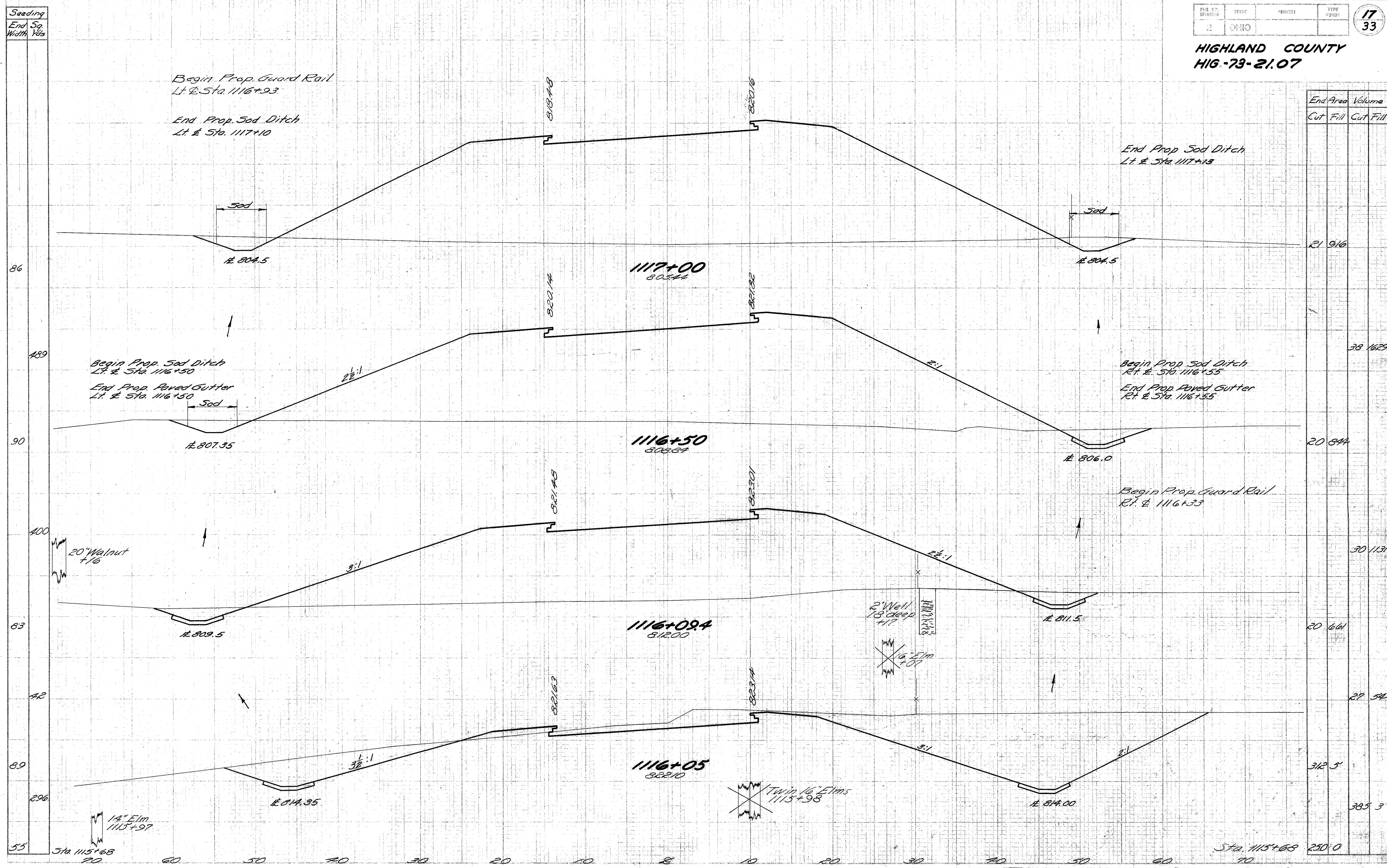


End Area		Volume	
Cut	Fill	Cut	Fill
250	0	0	1000
107	0	321	0
176	0	240	6
111	6	136	4
134	1	296	4
133	2		

Seeding	
End Sq Width	Yds
55	
262	
42	
277	
41	
125	
34	
263	
45	

Sta 1113+69.4 70 60 50 40 30 20 10 E 10 20 30 40 50 60 Sta 1114+29.4 133.2
STA. 1114+29.4 TO STA. 1115+68

HIGHLAND COUNTY
HIG-73-21.07



Seeding
End Sq. Width Yds

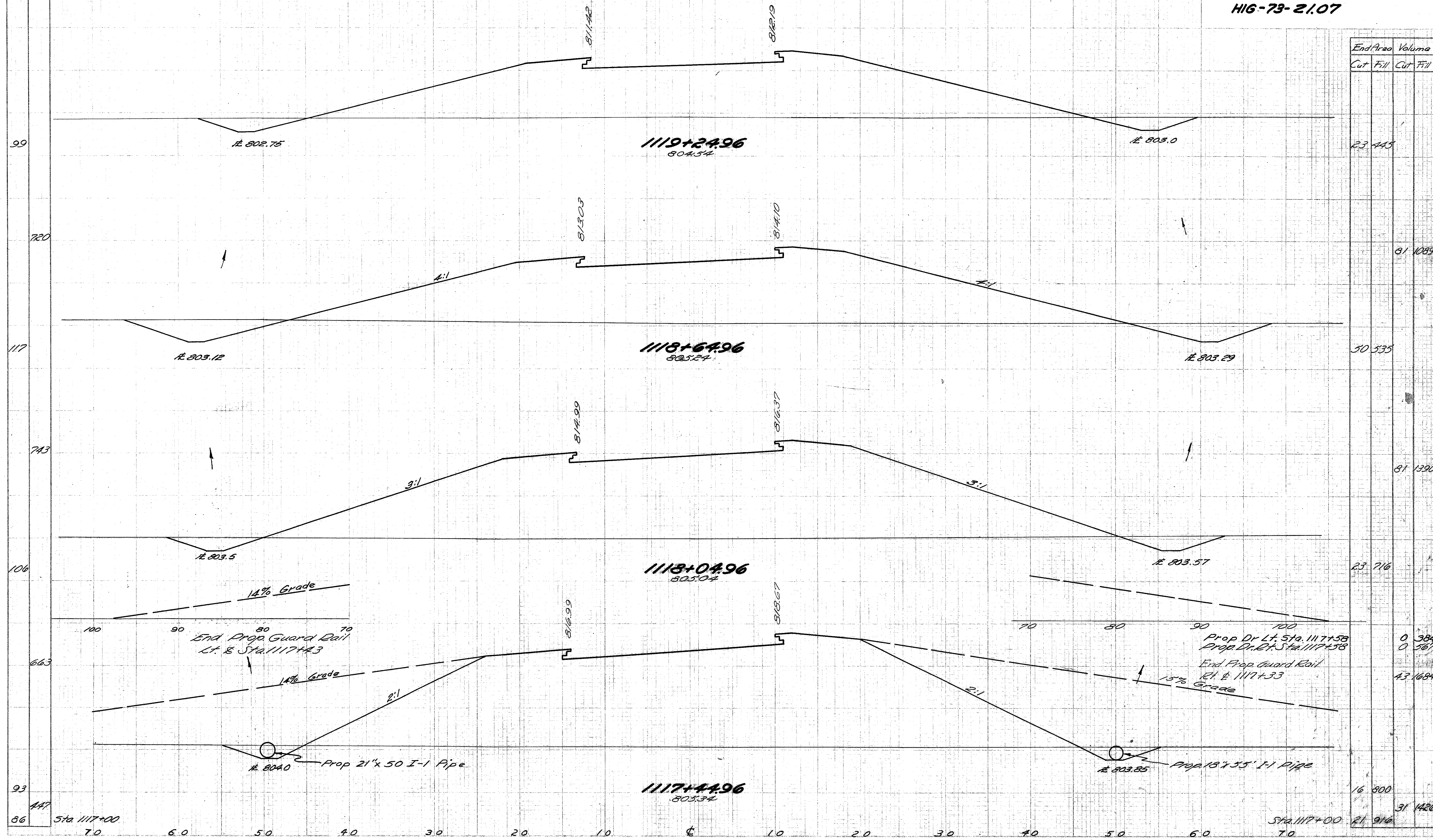
86
89
90
400
83
42
89
296
55

End Area		Volume	
Cut	Fill	Cut	Fill
		21	916
		38	1629
		20	844
		30	1131
		20	661
		27	54
		512	5
		385	3
		250	0

STA. 1116+05 TO STA. 1117+00

Seeding
End Sq
Width Vols

HIGHLAND COUNTY
HIG-73-21.07

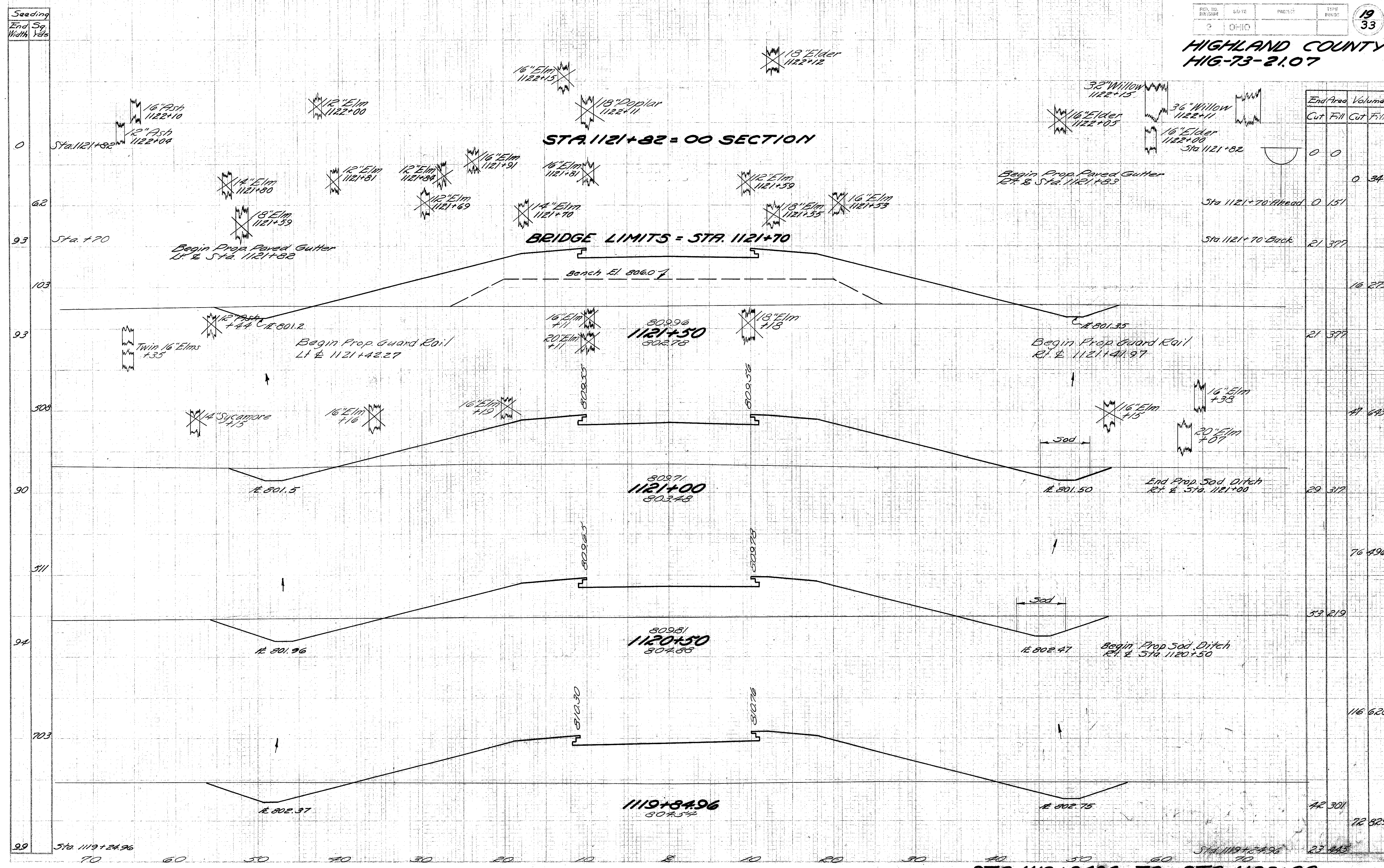


End Area		Volume	
Cut	Fill	Cut	Fill

				23	445
				81	1089
				50	535
				81	1390
				23	716
				0	384
				0	587
				43	1684
				16	800
				31	1426
				21	916

STA. 1117+44.96 TO STA. 1119+24.96

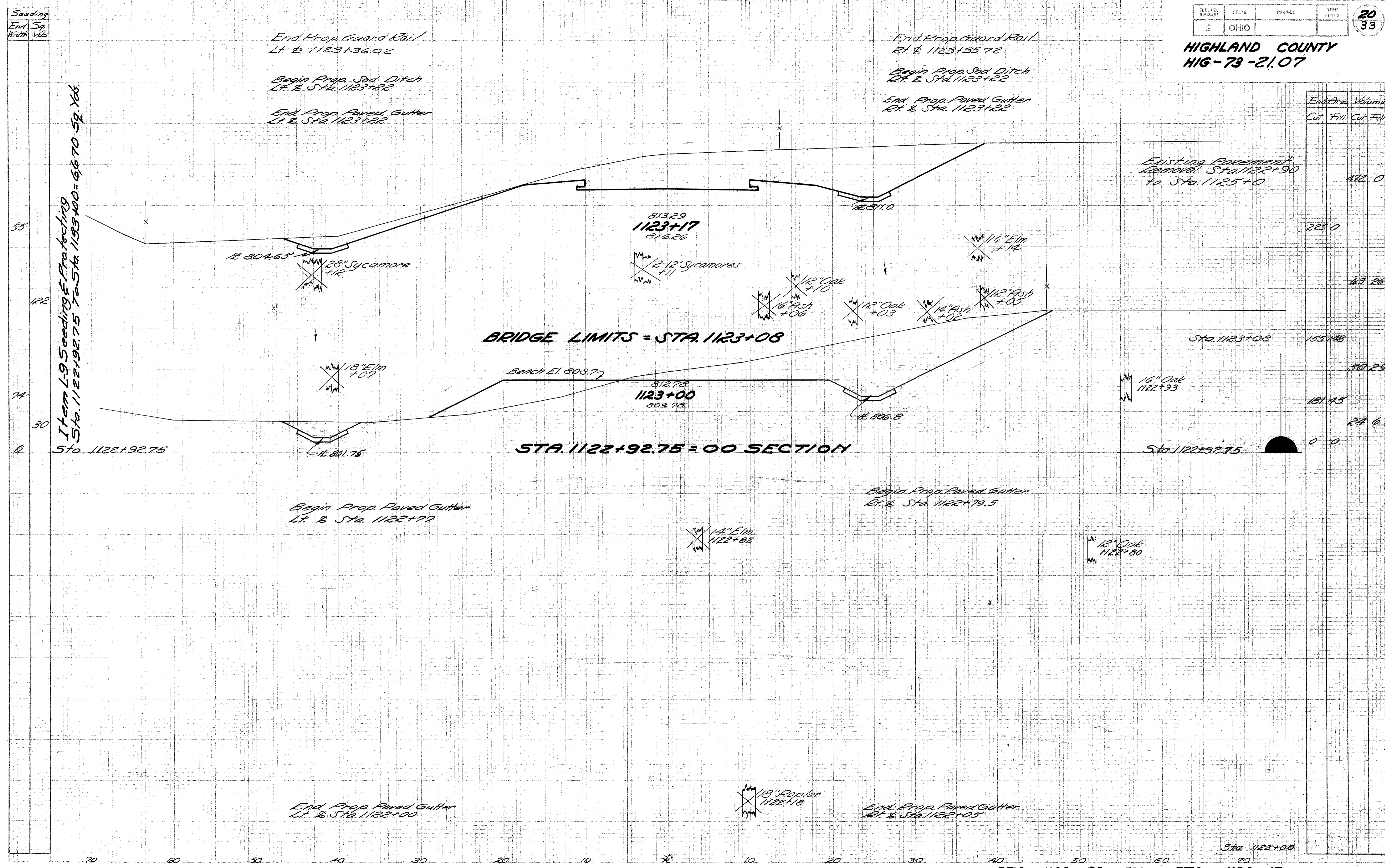
HIGHLAND COUNTY
HIG-73-21.07



End Area		Volume	
Cut	Fill	Cut	Fill
0	0		
		0	34
		0	151
21	377		
		10	279
21	377		
		21	643
29	317		
		76	496
33	219		
		116	626
42	301		
		72	829
23	445		

STA. 1119+84.96 TO STA. 1122+00

**HIGHLAND COUNTY
HIG-73-21.07**

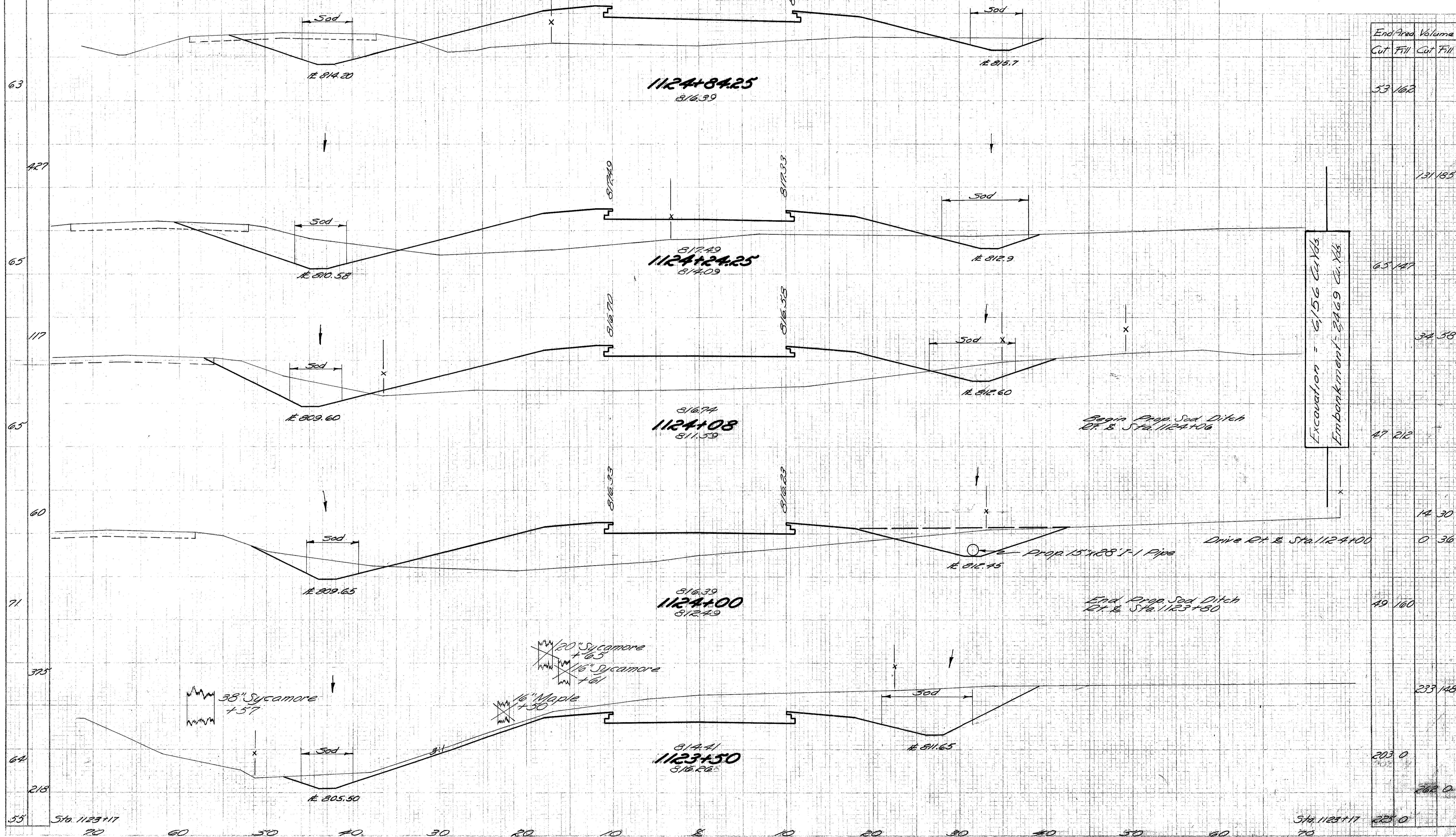


End Area	Volume	
	Cut	Fill
472.0		
225.0		
63.26		
155.148		
50.29		
181.45		
24.6		
0.0		

STA. 1123+00 TO STA. 1123+17

Seeding
End Sq.
Width Yds

HIGHLAND COUNTY
HIG-73-21.07



End Area		Volume	
Cut	Fill	Cut	Fill
53	162		
		131	185
63	147		
		34	58
65	212		
		14	30
60	36		
		0	36
71	180		
		49	180
325	148		
		233	148
64	0		
		203	0
218	0		
		262	0
55	0		
		225	0

Excavation = 6,156 Cu Yds
Embankment = 2,469 Cu Yds

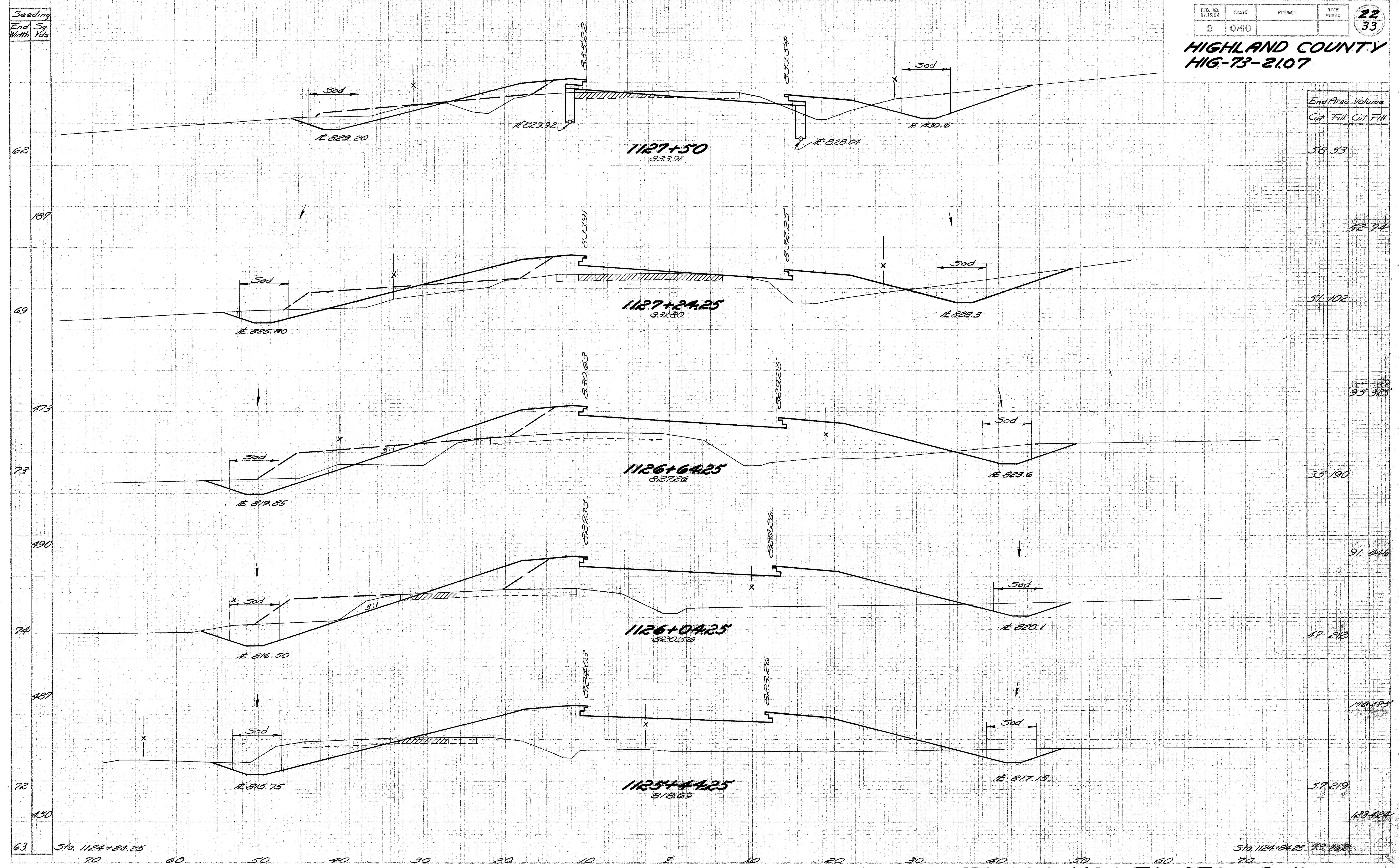
Begin Prop Sod Ditch
at Sta 1124+06

Drive at Sta 1124+00

End Prop Sod Ditch
at Sta 1123+50

STA. 1123+50 TO STA. 1124+84.25

**HIGHLAND COUNTY
HIG-73-2107**

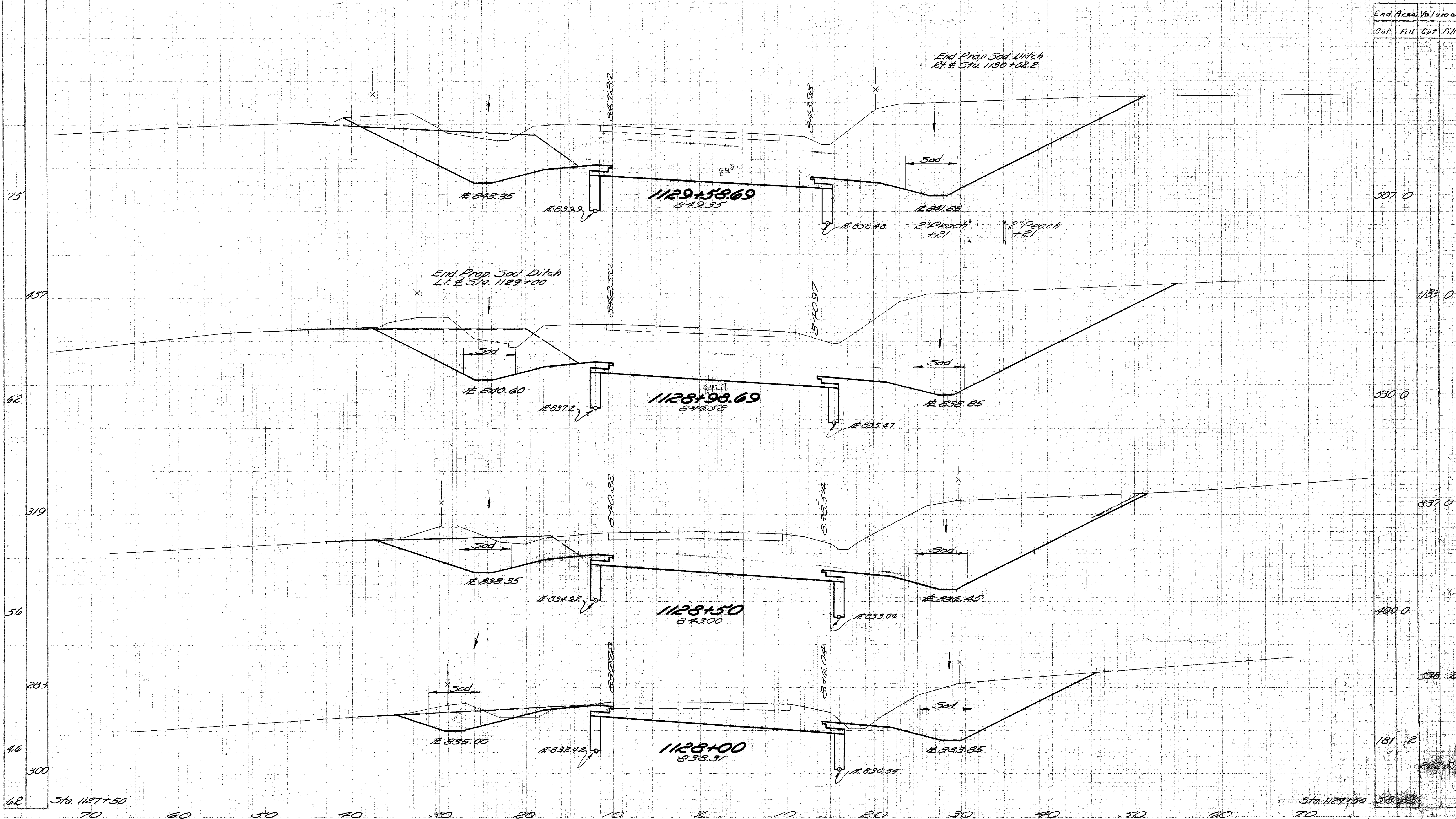


End Area		Volume	
Cut	Fill	Cut	Fill
58	53		
52	74		
51	102		
95	325		
91	446		
47	212		
116	475		
57	219		
123	424		

STA. 1125+44.25 TO STA. 1127+50

Seeding
End Sq.
Width Yds.

HIGHLAND COUNTY
HIG-73-21.07

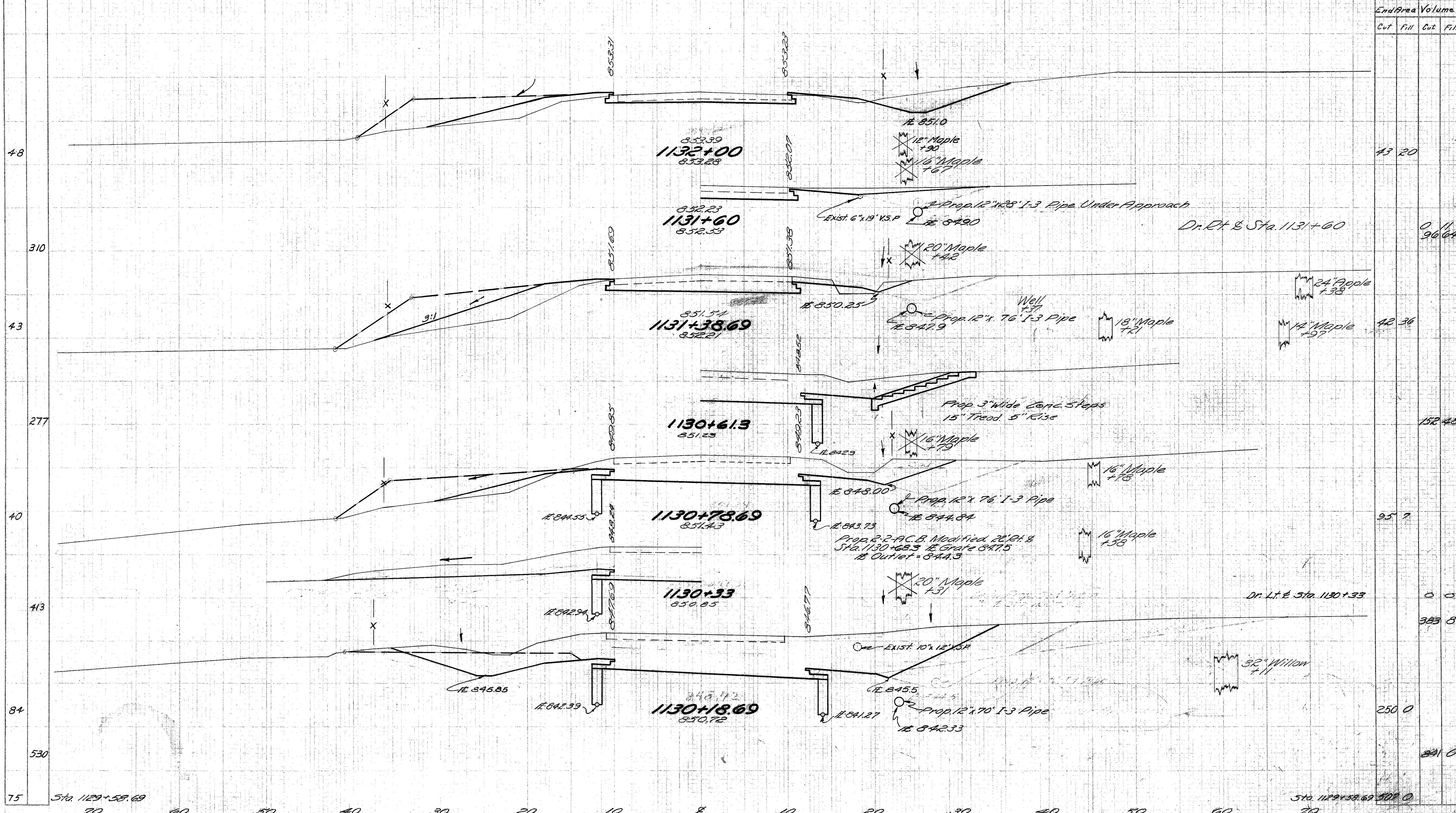


End Area		Volume	
Out	Fill	Out	Fill

STA 1128+00 TO STA 1129+58.69

Seeding
End Sq.
Width Yds.

HIGHLAND COUNTY
HIG-73-21.07



End Area		Volume	
Cut	Fill	Cut	Fill
43	20		
310		0	1166
43		42	36
277		152	48
40		95	7
413		0	0
84		383	8
530		250	0
75		84	0

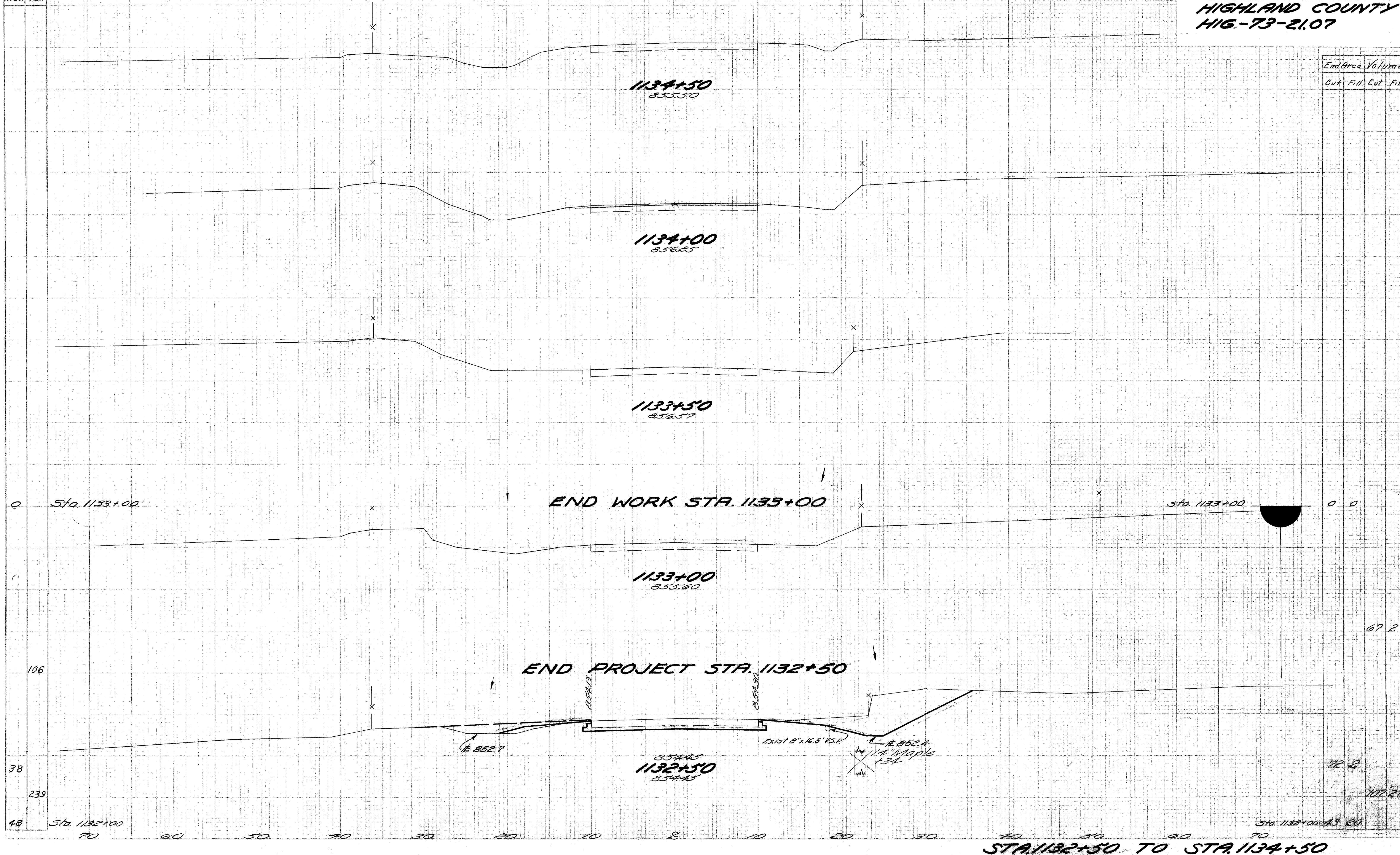
STA. 1130+18.69 TO STA. 1132+00

Seeding
End Sq.
Width Yds.

FED. RD. DISTRICT	STATE	PROJECT	25 33
2	OHIO		

HIGHLAND COUNTY
HIG-73-21.07

End Area		Volume	
Cut	Fill	Cut	Fill

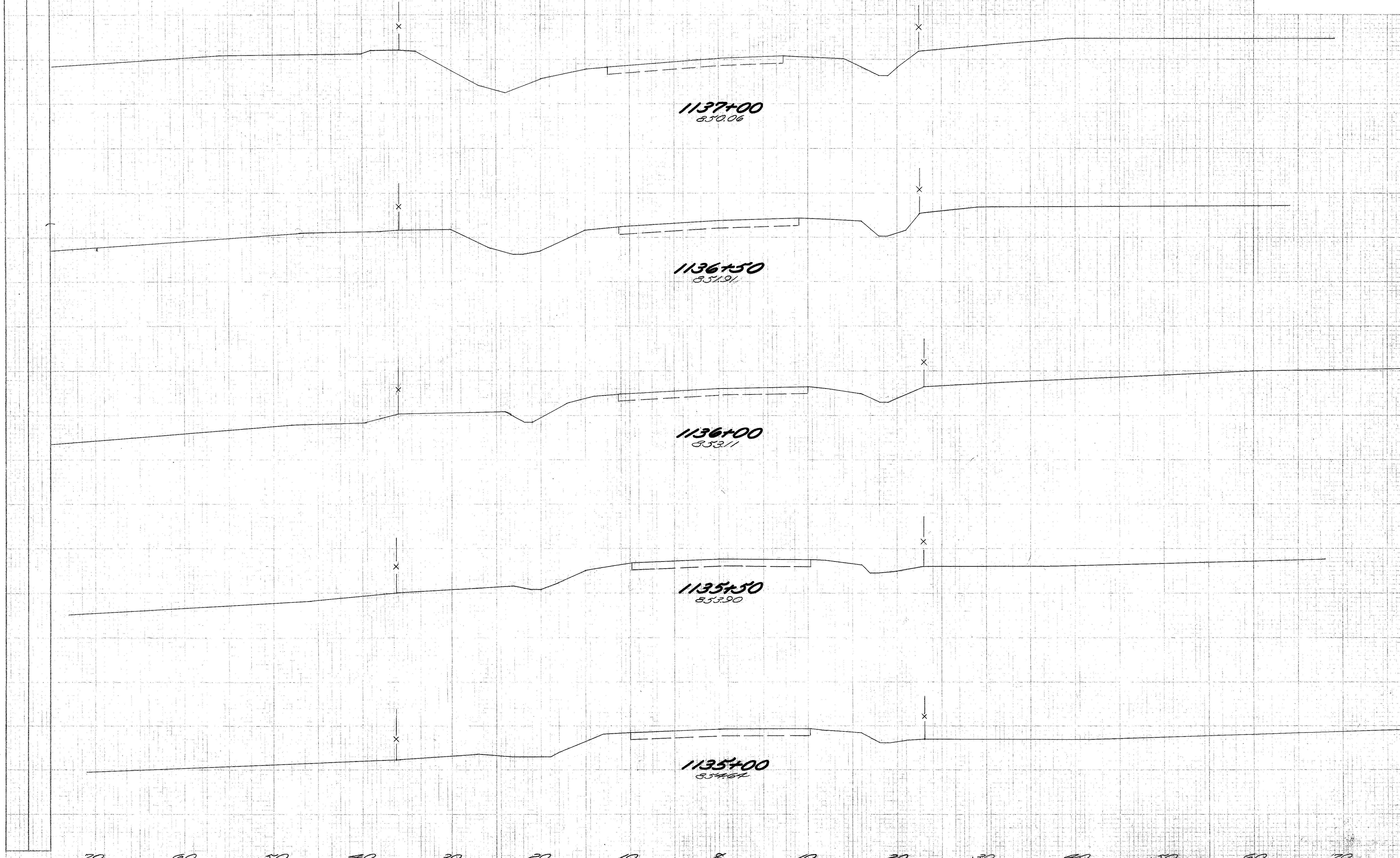


STA. 1132+50 TO STA. 1134+50

Seeding
End Sp.
Width Vols.

HIGHLAND COUNTY
HIG-73-21.07

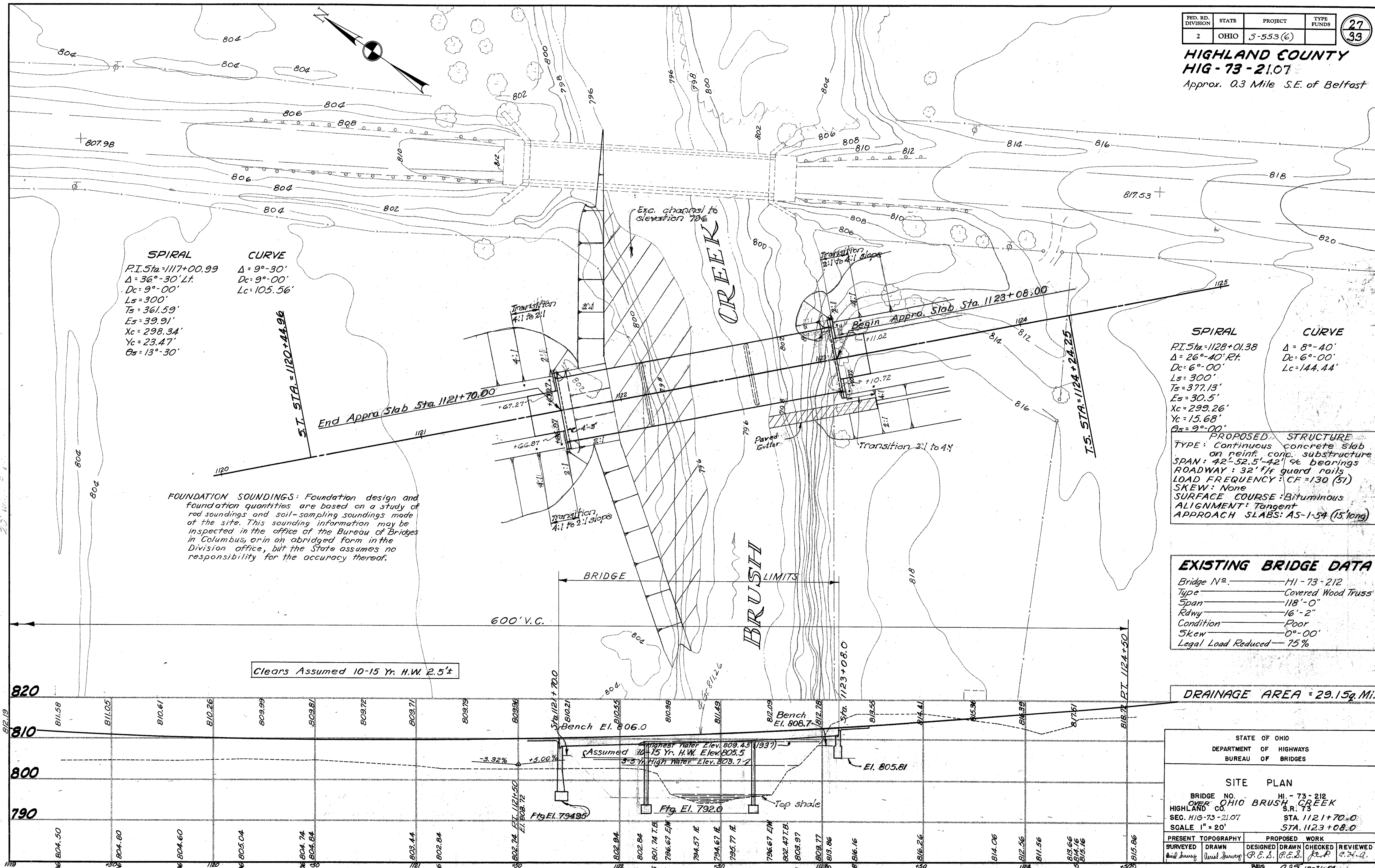
End Area		Volume	
Cut	Fill	Cut	Fill



STA. 1135+00 TO STA. 1137+00

HIGHLAND COUNTY
HIG-73-21.07

Approx. 0.3 Mile S.E. of Belfast



SPIRAL CURVE
 P.I. Sta. = 1117+00.99 Δ = 9°-30'
 Δ = 36°-30' Lt. Dc = 9°-00'
 Dc = 9°-00' Lc = 105.56'
 Ls = 300' Ts = 361.59'
 Es = 39.91' Xc = 298.34'
 Yc = 23.47' Os = 13°-30'

SPIRAL CURVE
 P.I. Sta. = 1128+01.38 Δ = 8°-40'
 Δ = 26°-40' Rt. Dc = 6°-00'
 Dc = 6°-00' Lc = 144.44'
 Ls = 300' Ts = 377.13'
 Es = 30.5' Xc = 299.26'
 Yc = 15.68' Os = 9°-00'

PROPOSED STRUCTURE
 TYPE: Continuous concrete slab on reinf. conc. substructure
 SPAN: 42'-52.5'-42' 9/16" bearings
 ROADWAY: 32' f/f guard rails
 LOAD FREQUENCY: CF = 130 (51)
 SKEW: None
 SURFACE COURSE: Bituminous
 ALIGNMENT: Tangent
 APPROACH SLABS: AS-1-54 (15' long)

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

EXISTING BRIDGE DATA

Bridge No.	HI-73-212
Type	Covered Wood Truss
Span	118'-0"
Rdwy	16'-2"
Condition	Floor
Skew	0°-00'
Legal Load Reduced	75%

Clears Assumed 10-15 Yr. H.W. 2.5'±

DRAINAGE AREA = 29.15 sq. Mi.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO. HI-73-212
OVER OHIO BRUSH CREEK
HIGHLAND CO. S.R. 73
SEC. HIG-73-21.07 STA. 1121+70.0
SCALE 1" = 20' STA. 1123+08.0

PRESENT TOPOGRAPHY		PROPOSED WORK	
SURVEYED	DRAWN	DESIGNED	CHECKED
By: [Signature]	By: [Signature]	By: P.E.S.	By: P.E.S.

DATE: 10-21-54

GENERAL NOTES

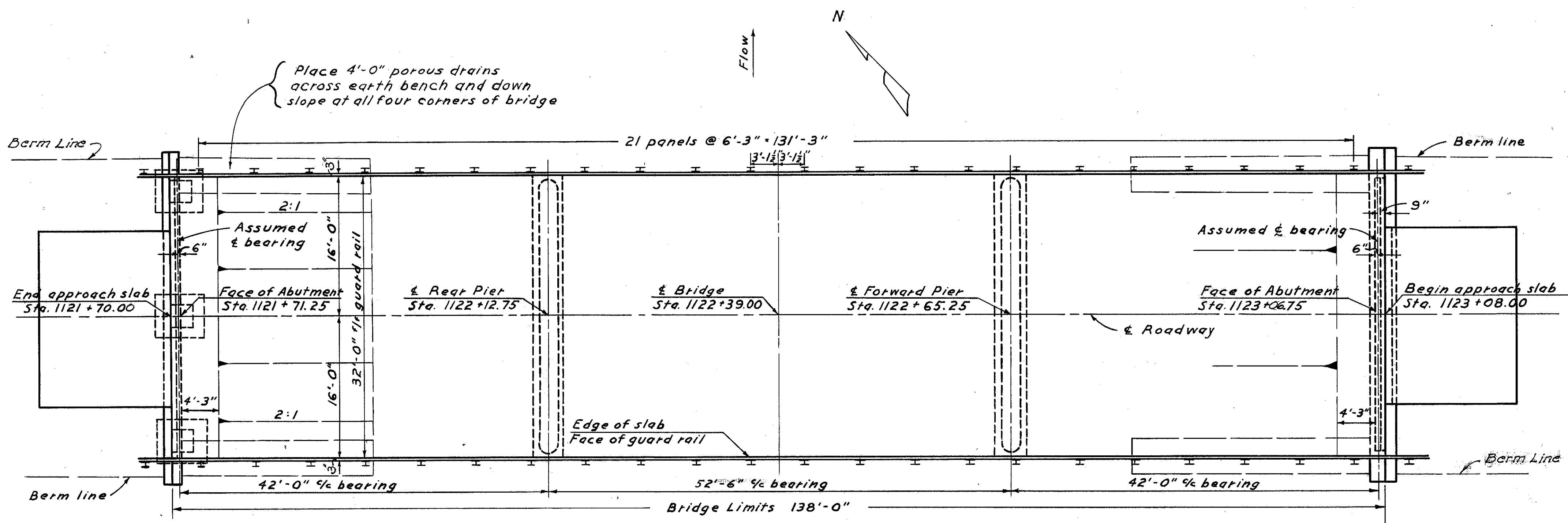
REFERENCE shall be made to Standard Drawings CS-1-54 dated 7-1-54, and A-1-54 dated 7-1-54.

REMOVAL OF EXISTING STRUCTURE: Existing superstructure shall be removed when no longer needed to maintain traffic. Steel beams shall be removed and piled along the right-of-way of the disposal of State Forces. The remainder shall become the property of the contractor.

Existing substructure shall be removed to 6" below existing ground at face of abutment and slopes dressed to 2:1. Removal of earth and dressing slopes shall be included with removal of existing structure for payment. All material removed shall be placed on embankment in front of and around abutments.

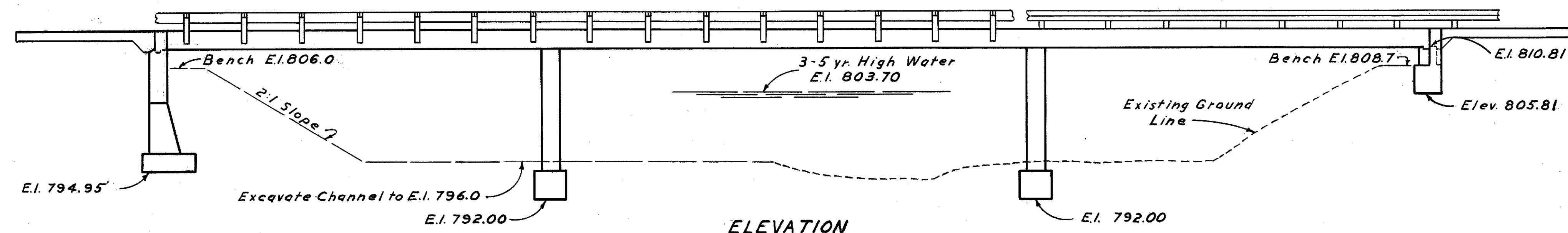
POROUS DRAINS, extending from face of abutment to Elev. 796 ±, shall be placed on and flush with embankment slopes at all four corners of the bridge. The drains shall be 4 ft wide and 1 ft thick and shall be centered under edge of deck. They shall be composed of No. 1 or No. 12 gravel, stone or slag. Construction procedure shall conform essentially to Item I-9. Trench excavation shall be included for payment with the price per cu. yd. bid for "Porous drains on embankment slopes."

EAST ABUTMENT shall be according to Standard Drawing A-1-54 except for omitting R401 reinforcing bars. No piling is to be used.



GENERAL PLAN

600 Foot Vertical Curve



ELEVATION

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER	PIERS	ABUTS.	GEN'L.
E-2	Lump	Sum	Cofferdams, cribs and sheeting		Lump		
E-2	121	Cu. Yd.	Unclassified excavation			121	
E-2	49	Cu. Yd.	Shale excavation		40	9	
E-3	1071	Cu. Yd.	Channel excavation				1071
S-1	288	Cu. Yd.	Class "C" concrete, superstructure	288			
S-1	105	Cu. Yd.	Class "E" concrete, abutments and pier walls		63	42	
S-1	31	Cu. Yd.	Class "E" concrete, pier and rear abutment footings		24	7	
S-3	548	Sq. Yd.	Type "C" waterproofing	548			
S-4	66,088	Lb.	Reinforcing steel	59,754	2,211	3,976	147
S-9	5	Sq. Ft.	½" Premolded expansion joint filler	5			
S-14	276	Lin. Ft.	Railings, Type I-15.13 with galvanized steel posts	276			
S-24	Lump	Sum	Removal of existing structure			Lump	
S-29	13	Cu. Yd.	Porous backfill			13	
S-29	18	Cu. Yd.	Porous drains on embankment slopes				18
T-35	31	Cu. Yd.	Asphaltic concrete surface course, Type "A" or "C" (85-100)	31			

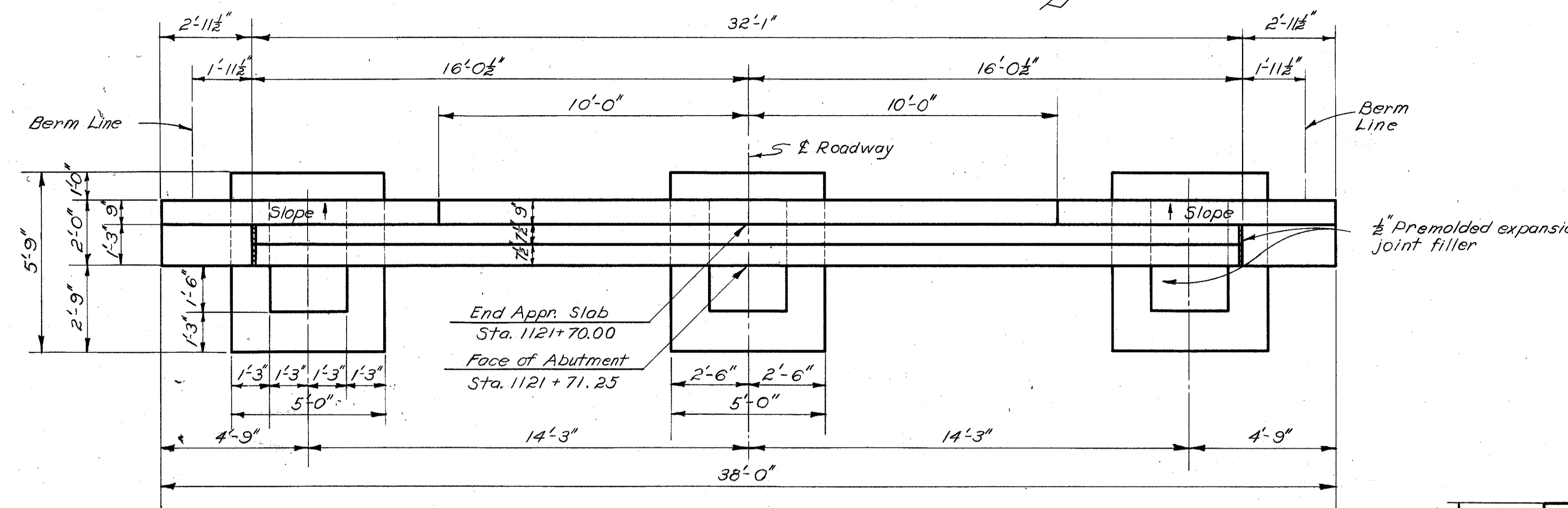
STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES AND RAILROAD CROSSINGS

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

BRIDGE NO. H1-73-212
OVER OHIO BRUSH CREEK

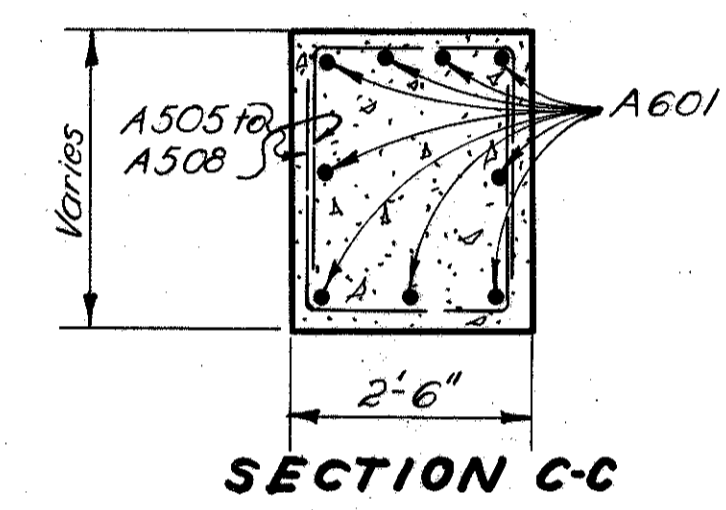
HIGHLAND COUNTY STA. 1121+70.00
SEC. HIG-73-2107 STA. 1123+08.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
CTR	CTR	E.B.L.	R.G.	BFG	10-21-54	

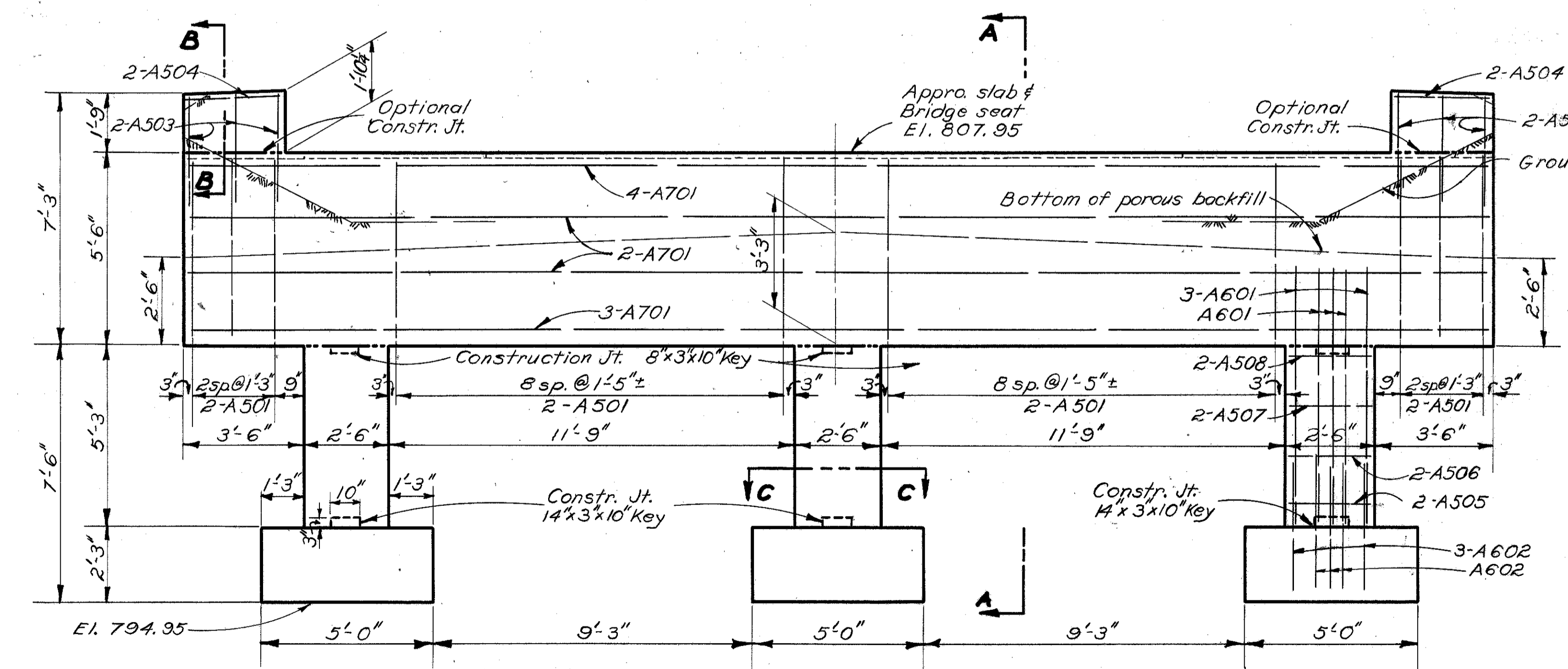


PLAN OF REAR ABUTMENT

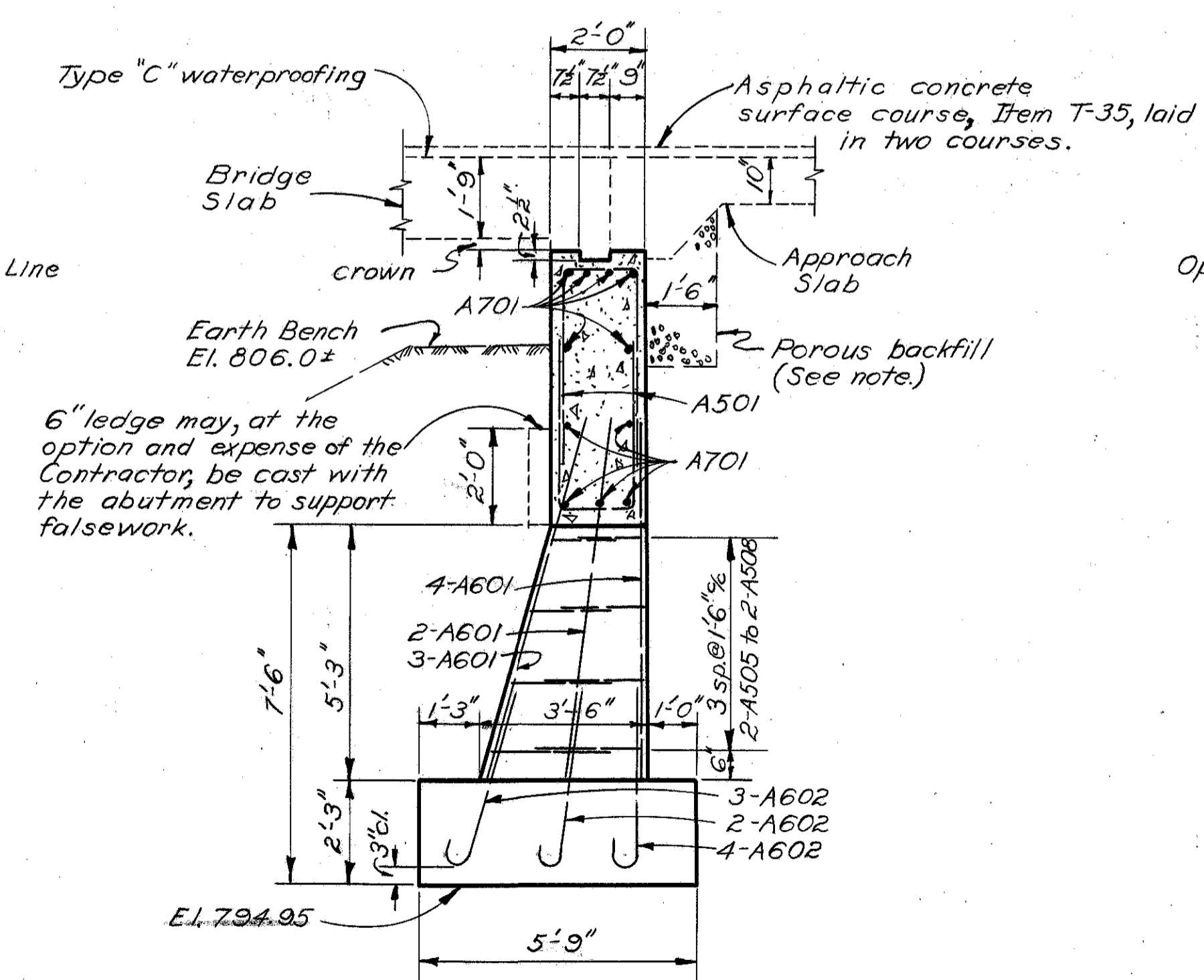
NOTES:
 REINFORCING STEEL shall be 2" clear from face of concrete unless otherwise shown.
 EARTH EMBANKMENT shall be placed to full height of earth bench after pedestals have been placed. Excavation shall then be made for crossbeam.
 EXCAVATION QUANTITY includes the removal of fill material between top of earth bench and bottom of abutment crossbeam.
 POROUS BACKFILL (see A-1-54).



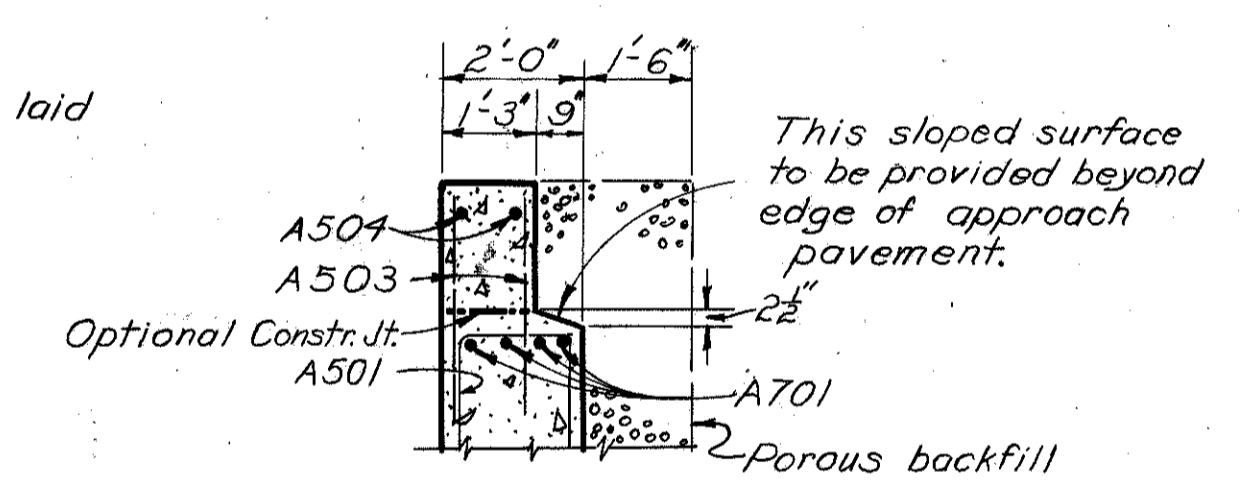
SECTION C-C



ELEVATION OF REAR ABUTMENT



SECTION A-A



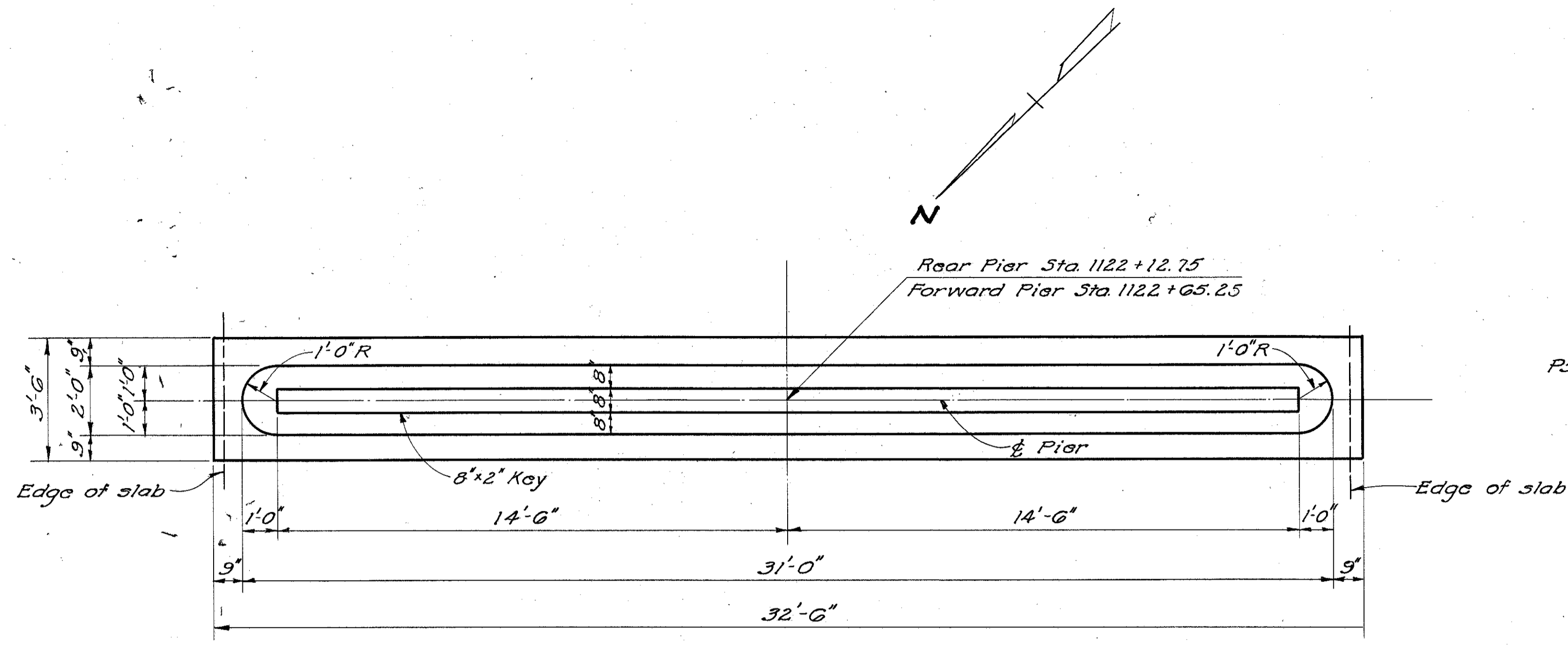
SECTION B-B

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

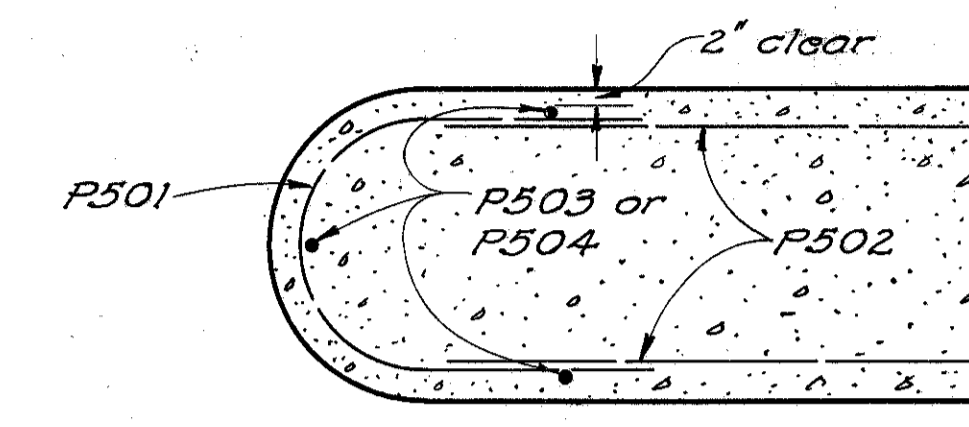
REAR ABUTMENT DETAILS
 BRIDGE No. HI-73-212
 OVER OHIO BRUSH CREEK

HIGHLAND COUNTY STA. 1121+70.00 to
 SEC. HIG-73-21.07 1123+08.00

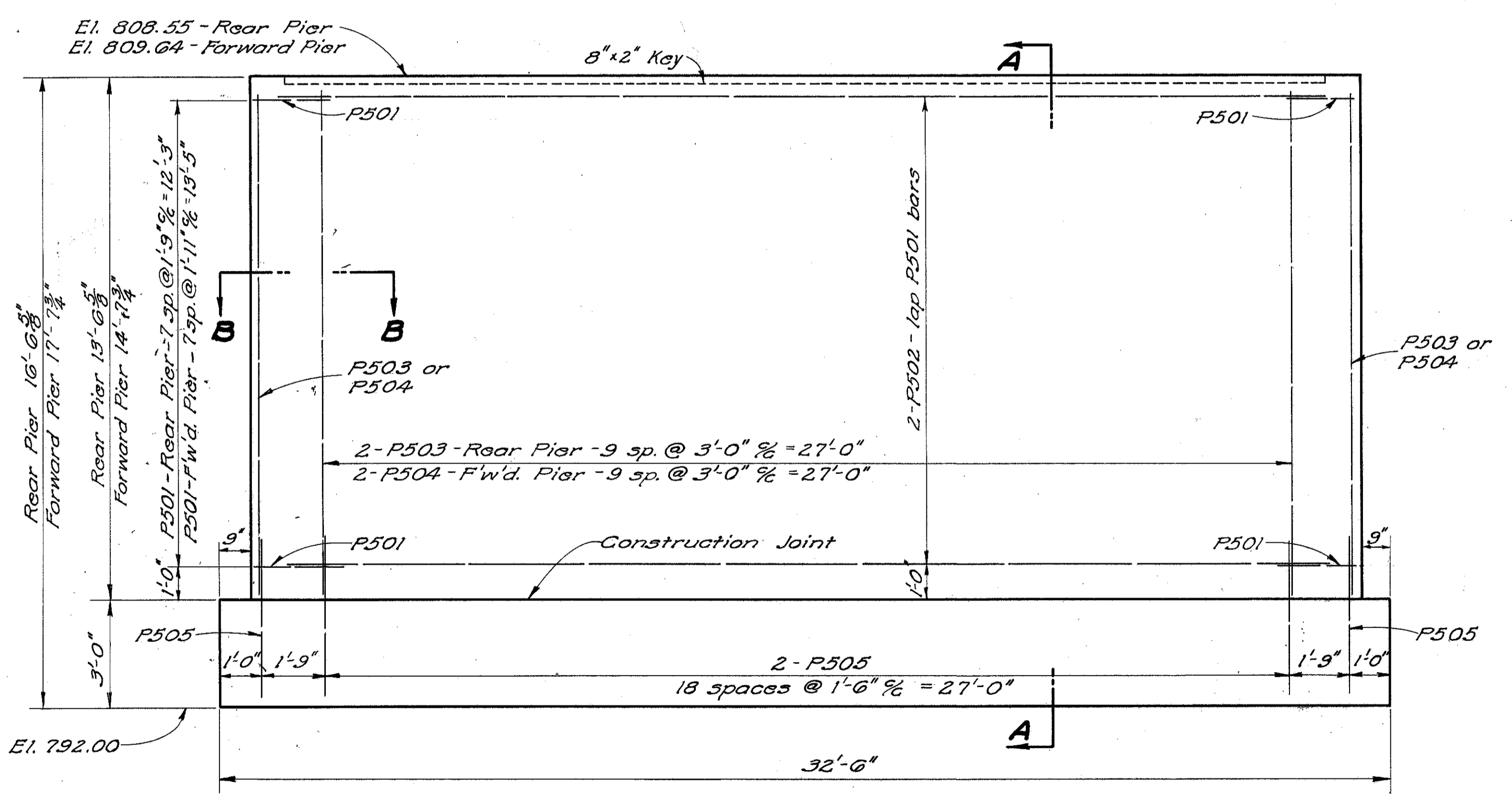
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
CTR	C.E.M.	B.D.H.	R.G.	BFG	10-21-54	



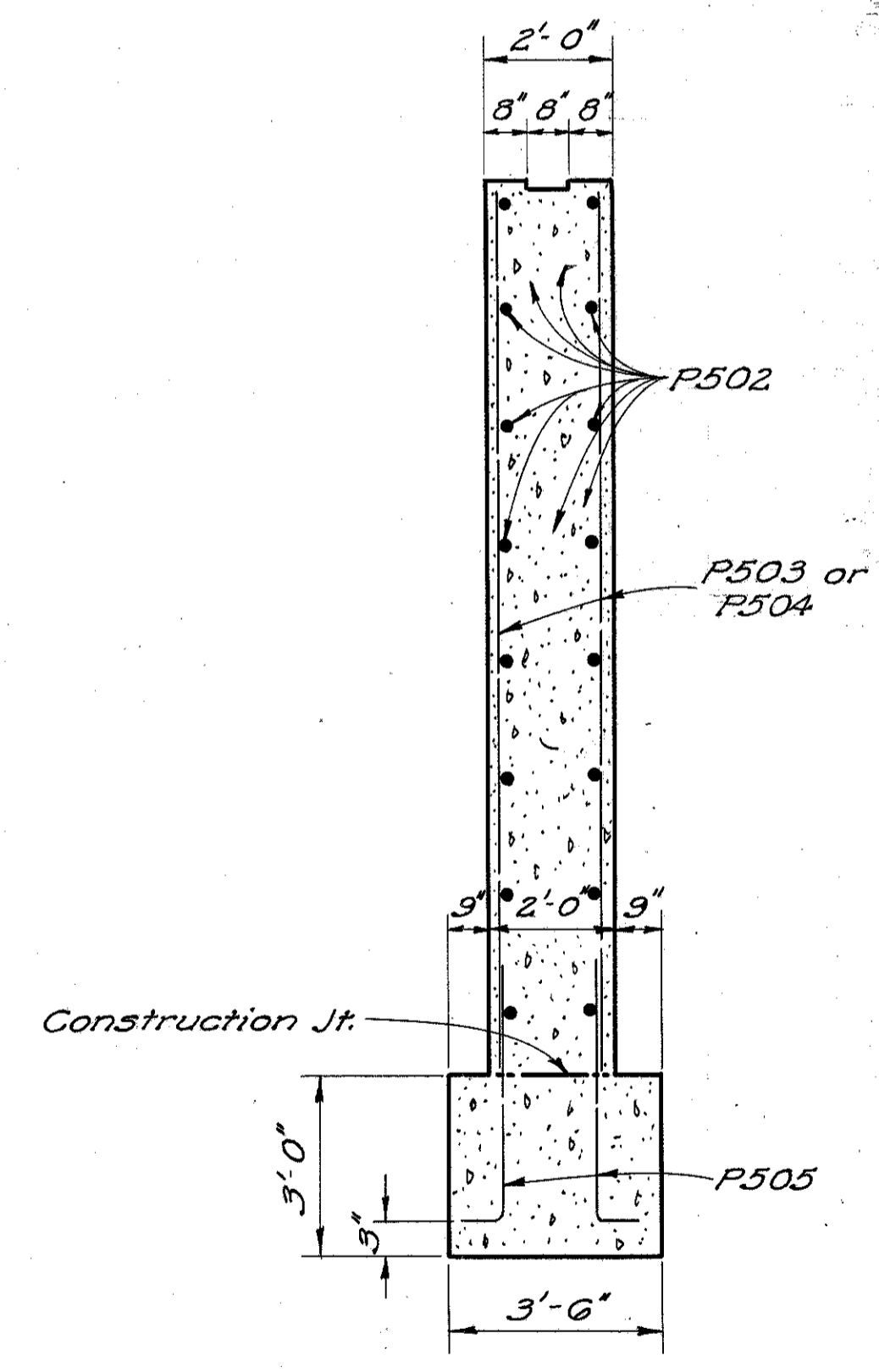
PLAN



SECTION B-B



ELEVATION



SECTION A-A

NOTE: Reinforcing steel shall be 2" clear from face of concrete unless otherwise shown.

REINFORCING STEEL LIST

MARK	No.	LENGTH	WEIGHT	SHR	BENDING DIAGRAMS	MARK	No.	LENGTH	WEIGHT	SHR
Superstructure					West Abutment					
A1033	90	48'-0"	18389	3		A701	11	37'-6"	843	3
B1033	30	33'-9"	4357	B		A601	27	7'-0"	284	3
C1033	28	29'-7"	3564	B		A602	27	4'-7"	186	B
D1033	15	30'-6"	1969	3		A501	48	7'-11"	396	B
E1033	14	22'-2"	1335	3	A503	12	3'-5"	43	3	
F1133	68	31'-4"	11320	3	A504	4	2'-7"	11	3	
G1133	34	15'-4"	2770	3	A505	6	6'-7"	41	B	
H1133	32	10'-0"	1700	3	A506	6	6'-3"	39	B	
J601	34	28'-6"	1455	3	A507	6	5'-11"	37	B	
K601	17	25'-8"	655	3	A508	6	5'-3"	33	B	
NG01	83	31'-6"	3927	3	Piers					
M701	126	31'-6"	8113	3	P501	32	5'-8"	189	B	
East Abutment					P502	32	29'-0"	968	3	
R1001	8	16'-11"	582	3	P503	22	13'-4"	306	3	
R801	8	20'-1"	429	3	P504	22	14'-5"	331	3	
R501	8	19'-7"	163	3	P505	80	5'-0"	417	B	
R502	58	6'-7"	398	B	Replacement Bars					
R503	4	16'-1"	67	3	RE11	1	7'-7"	40	3	
R504	12	5'-4"	67	3	RE10	2	7'-3"	62	3	
R505	14	7'-11"	116	B	RE8	1	6'-6"	17	3	
R506	4	8'-8"	36	3	RE7	1	6'-9"	13	3	
R507	8	4'-11"	41	3	RE6	1	5'-11"	9	3	
R508	10	7'-4"	76	B	RE5	1	5'-7"	6	3	
R509	10	8'-5"	88	B	Bending Diagrams					

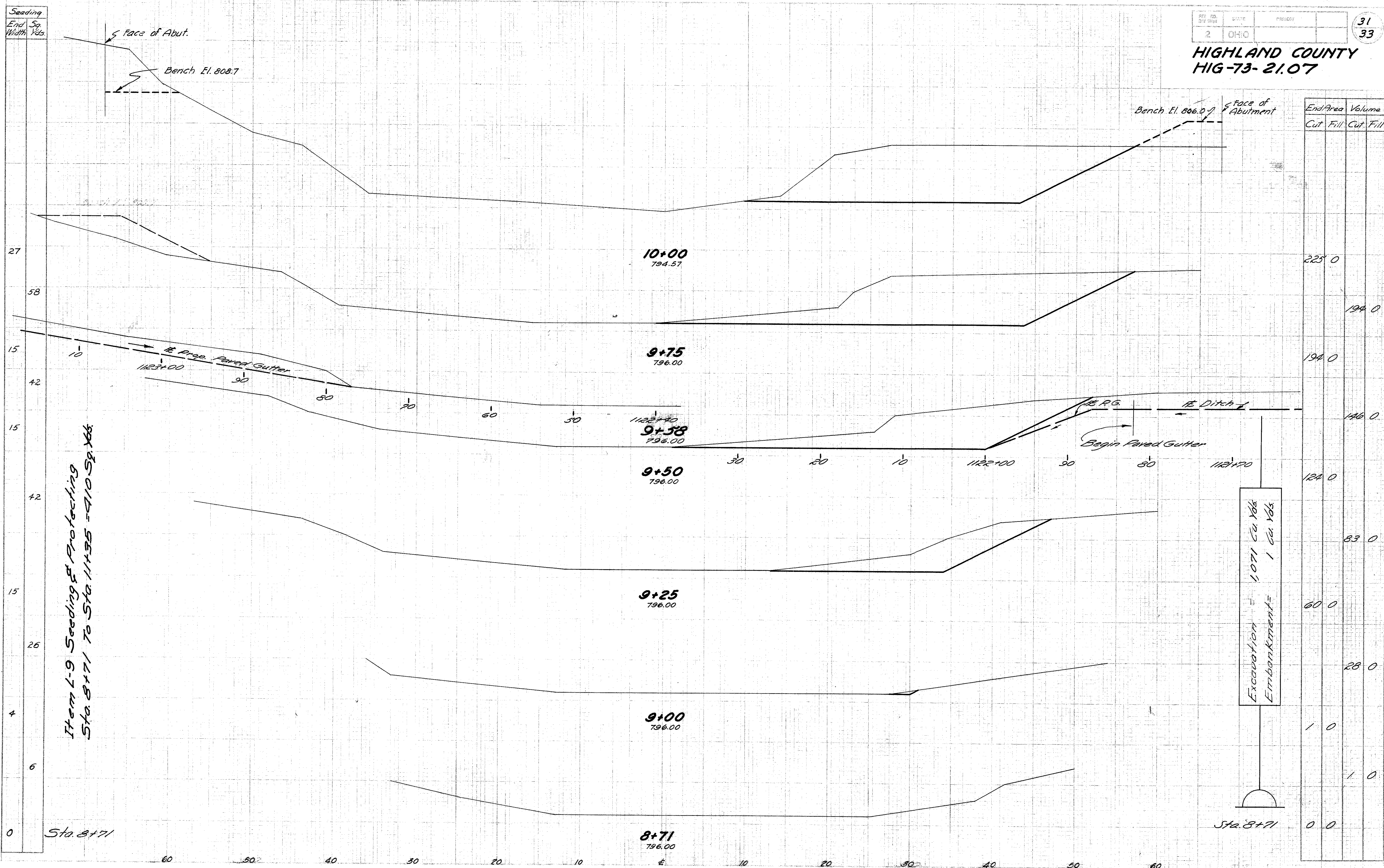
STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

PIER DETAILS & REINFORCING STEEL LIST
BRIDGE NO. HI-73-212
OVER OHIO BRUSH CREEK
HIGHLAND COUNTY STA. 1121+70.00
SEC. HIG-73-21.07 STA. 1123+08.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
CTR	CEM	JDJ	R.G.	Q. J.	10-21-54	

Seeding
End Sp.
Width Yds.

**HIGHLAND COUNTY
HIG-73-21.07**



Item L-9 Seeding & Protecting
Sta. 8+71 To Sta. 11+35 = 410 Sq. Yds.

Excavation = 1,071 Cu. Yds.
Embankment = 1,621 Yds.

End Area		Volume	
Cut	Fill	Cut	Fill
		225	0
		194	0
		194	0
		146	0
		124	0
		83	0
		60	0
		28	0
		1	0
		1	0
		0	0

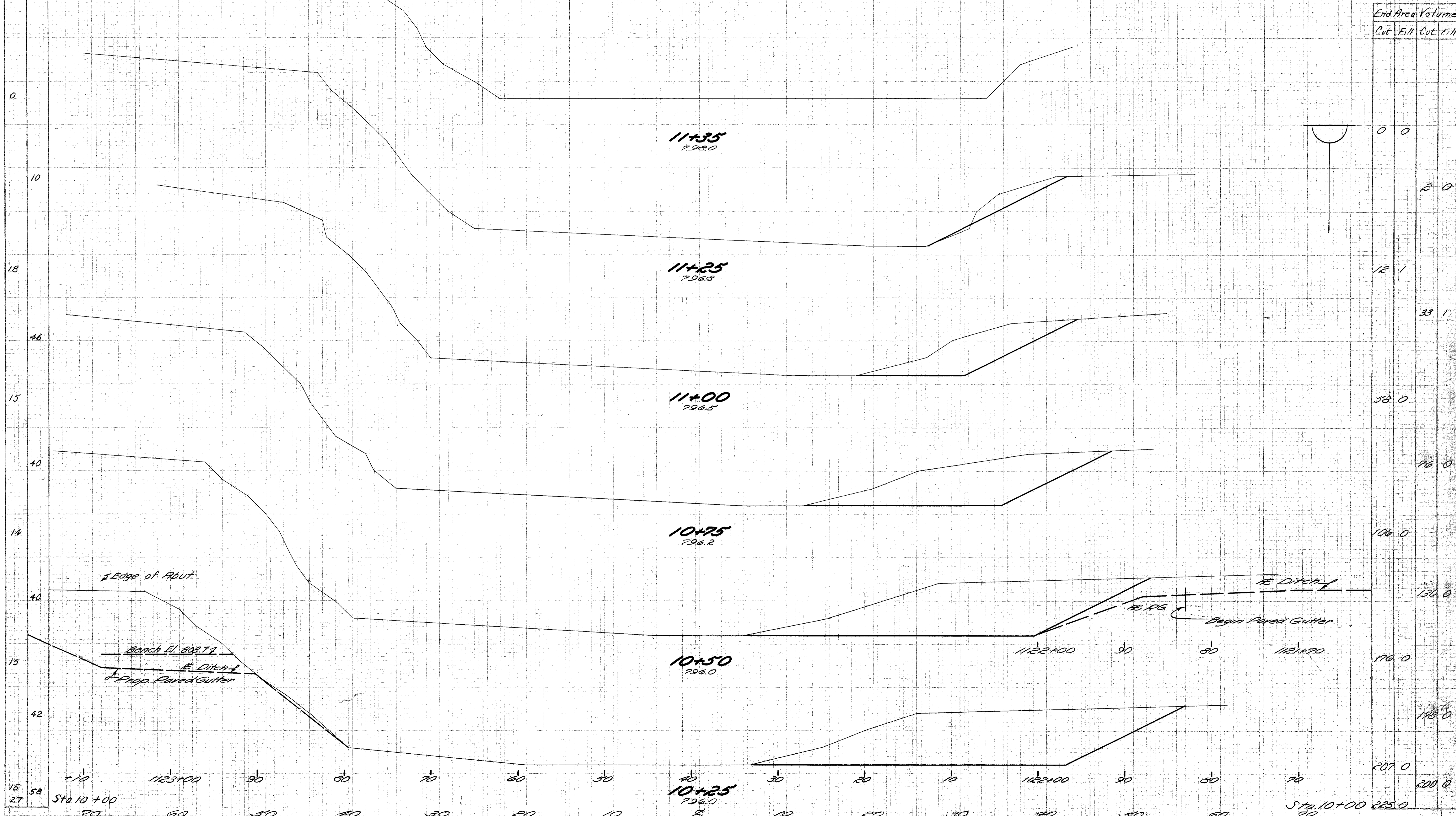
CHANNEL SECTIONS (STA 8+71 TO STA 10+00)

Seeding
End Sq.
Width Yds

FILE NO.	STATE	PROJECT
2	OHIO	

32
33

**HIGHLAND COUNTY
HIG-73-21.07**



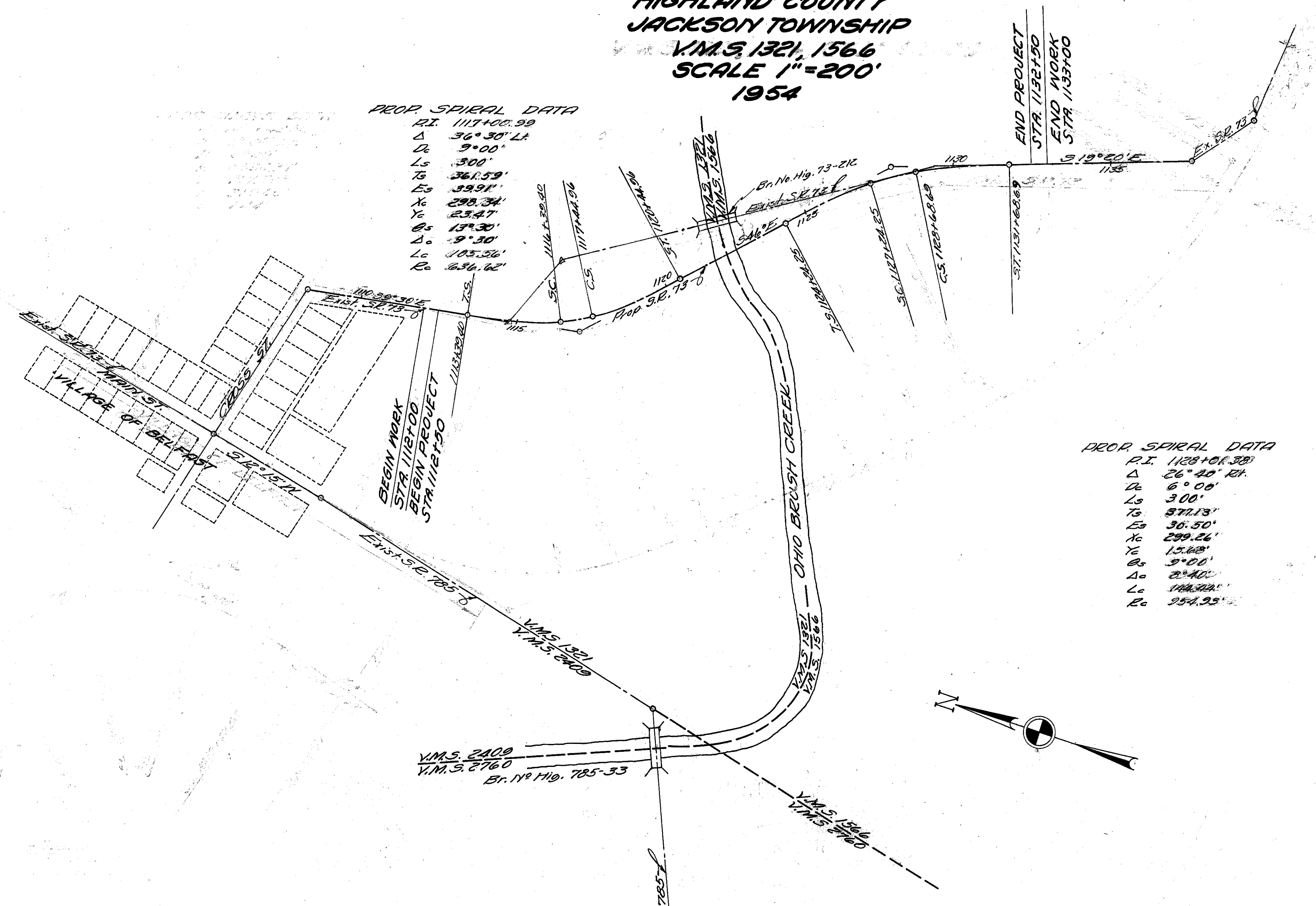
CHANNEL SECTIONS STA. 10+25 TO STA. 11+35

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		



LOCATION PLAN

STATE OF OHIO DEPARTMENT OF HIGHWAYS
STATE ROUTE NO 73
SECTION 21.07
HIGHLAND COUNTY
JACKSON TOWNSHIP
V.M.S. 1321, 1566
SCALE 1"=200'
1954

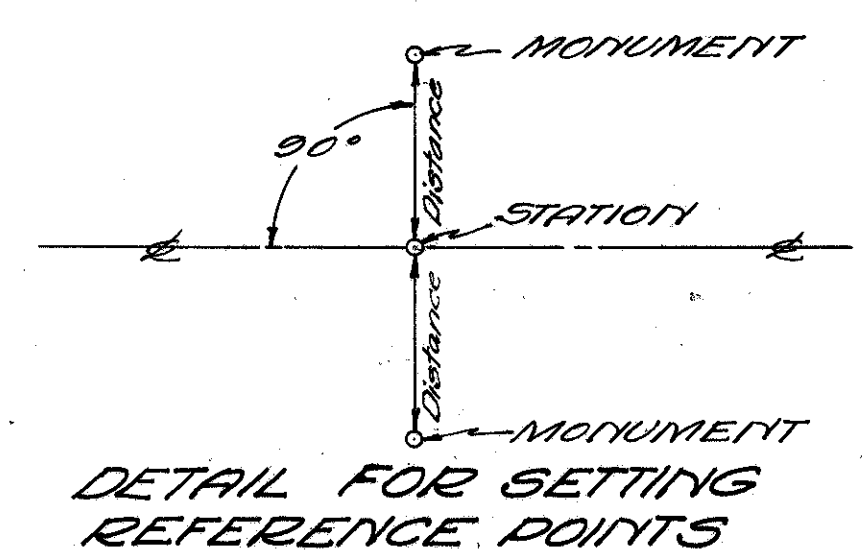


PROP SPIRAL DATA
 P.I. 1117+00.99
 Δ 36° 30' Lt
 Lc 9° 00'
 Ls 300'
 Tc 361.59'
 Es 33.91'
 Xc 298.34'
 Yc 23.47'
 Oc 13° 30'
 Δ 9° 30'
 Lc 105.58'
 Ec 636.62'

PROP SPIRAL DATA
 P.I. 1128+01.38
 Δ 26° 40' Rt
 Lc 6° 00'
 Ls 300'
 Tc 371.13'
 Es 36.50'
 Xc 299.26'
 Yc 15.88'
 Oc 9° 00'
 Δ 2° 40'
 Lc 144.324'
 Ec 254.25'

REFERENCE POINTS TO BE SET AFTER CONSTRUCTION

Station	Dist. from E		Station	Dist. from E		Station	Dist. from E	
	Lt.	Rt.		Lt.	Rt.		Lt.	Rt.
1112+50	17'	17'	1117+49.6	17'	17'	1127+24.25	17'	17'
1113+39.40	17'	17'	1120+44.96	17'	17'	1129+68.69	17'	17'
1116+39.40	17'	17'	1124+24.25	17'	17'	1134+68.69	17'	17'
						1132+50	17'	17'



RECORDED IN HIGHLAND COUNTY RECORDS
 BOOK 2 PAGE 31 DATE Dec. 16, 1954

NOTE:
 This relocation was approved by the Director of Highways on 6 Dec. 1954 and recorded in his Journal Volume 39 Page 797

I HEREBY CERTIFY THAT THIS PLAN IS A TRUE DELINEATION OF A SURVEY MADE BY THE OHIO DEPARTMENT OF HIGHWAYS.
 Date 1/4/54
 Joseph M. Doyle
 DIVISION ENGINEER
 DIVISION 9 (R.E. 1209)

UTILITIES:
 Telephone Line Owned By The Ohio Bell Telephone Company; Cleveland, Ohio

Power Line Owned By The Inter County Rural Electrification Cooperative Association; Hillsboro, Ohio

PROP SPIRAL DATA
 P.I. 117+00.99
 Δ 36° 30' Lt.
 D_c 9° 00'
 L_s 300'
 T_b 361.59'
 E_s 39.91'
 Y_c 298.34'
 Y_e 297.64'
 O_c 13° 30'
 D_o 9° 30'
 L_o 105.56'

EXIST CURVE DATA
 Δ 57° 50' Lt.
 R 26° 45'
 R 214.19'
 T 113.32'
 L 216.20'
 E 30.51'

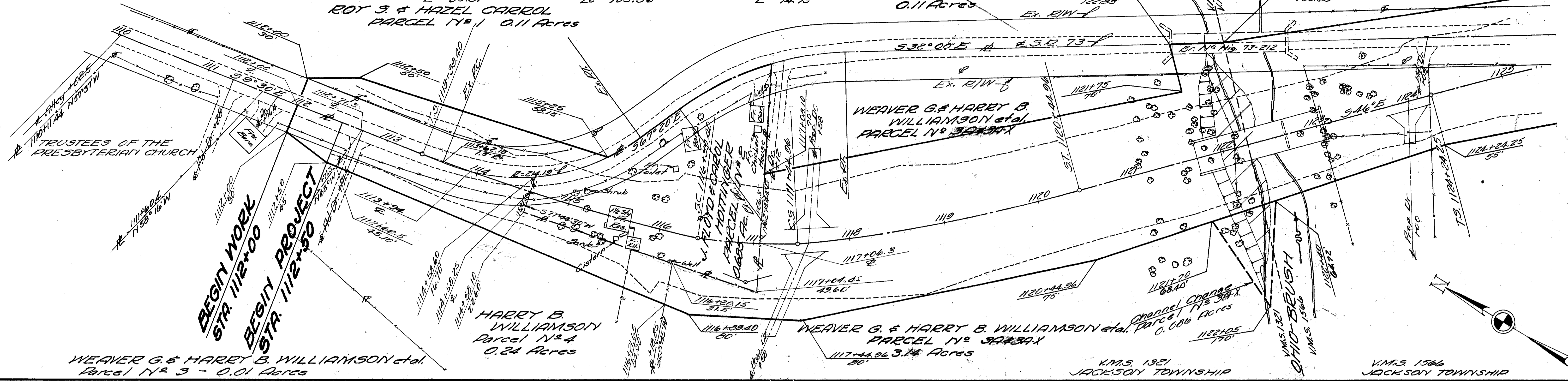
EXIST CURVE DATA
 Δ 35° 20' Rt.
 D_c 19° 15'
 R 297.64'
 T 24.80'
 L 183.53'
 E 14.73'

V.M.S. 1321
 JACKSON TOWNSHIP

V.M.S. 1566
 JACKSON TWP

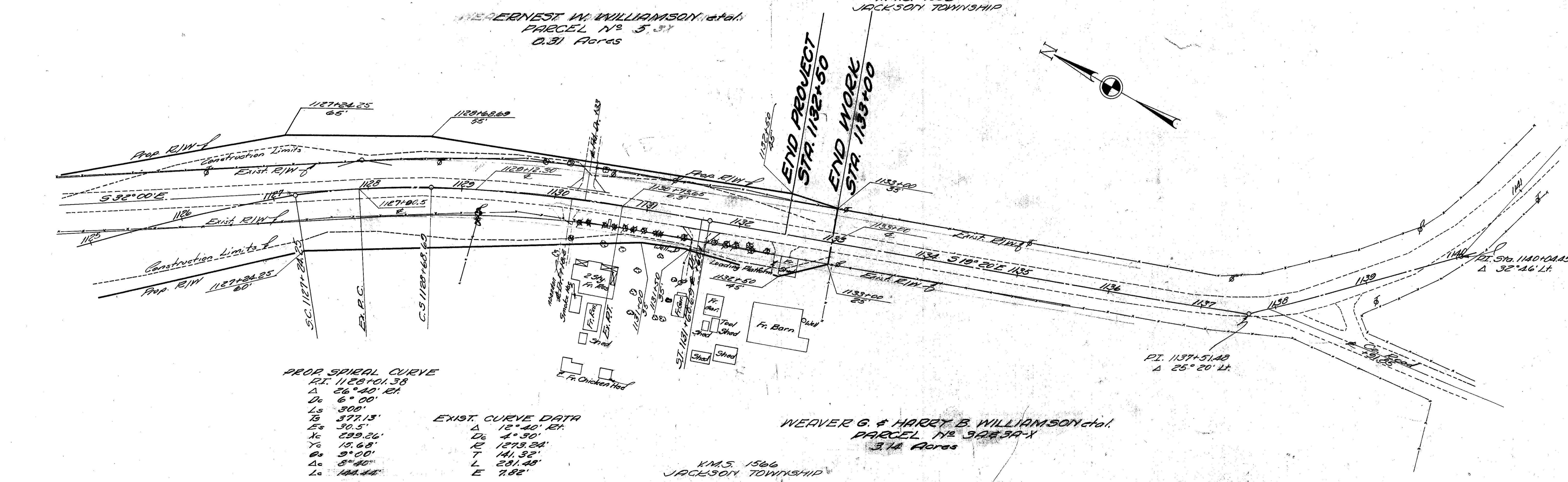
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	S-553 (6)	1954

**R/W PLAN
 HIG. 73-21.07
 HIGHLAND COUNTY
 1954**



WEAVER G & HARRY B WILLIAMSON et al.
 PARCEL No 5 3.31
 0.31 Acres

V.M.S. 1566
 JACKSON TOWNSHIP



PROP SPIRAL CURVE
 P.I. 112+01.38
 Δ 26° 40' Rt.
 D_c 6° 00'
 L_s 300'
 T_b 377.13'
 E_s 30.5'
 Y_c 299.26'
 Y_e 15.68'
 O_c 9° 00'
 D_o 8° 40'
 L_o 144.44'

EXIST. CURVE DATA
 Δ 12° 40' Rt.
 D_c 4° 30'
 R 1273.24'
 T 141.32'
 L 281.48'
 E 7.82'

WEAVER G & HARRY B WILLIAMSON et al.
 PARCEL No 5 3.31
 3.14 Acres

V.M.S. 1566
 JACKSON TOWNSHIP

LEGEND FOR PROJECT-AVERAGE RESULTS OF TESTS- 18 SAMPLES TESTED

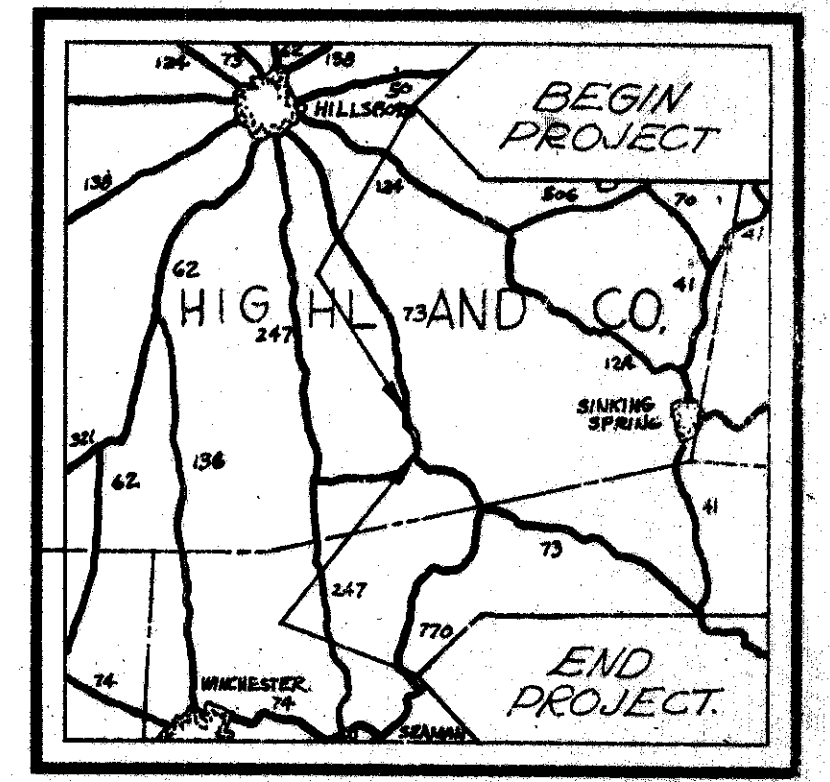
DESCRIPTION	H. R. B. CLASS	OHIO CLASS	% AGG.	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
GRAVEL & SILT-CLAY	A-2-6(a)	A-2-6	43	18	20	5	14	34	15	14	2
SANDY SILT	A-4(a)	A-4a	2	2	36	38	22	23	7	19	2
SILT	A-4(b)	A-4b	6	5	10	53	26	26	6	21	2
SILT & CLAY	A-6(a)	A-6a	18	5	6	26	45	33	13	18	3
CLAY	A-6(b)	A-6b	7	5	14	37	37	36	18	15	4
ORGANIC TOP SOIL	A-7-5(a)	A-7-5a	0	2	7	59	32	45	17	35	1
CLAY	A-7-6(a)	A-7-6	12	3	9	28	48	53	29	25	4

AUGER BORING. PLOTTED TO VERTICAL SCALE ONLY.
 AUGER BORING- PLAN VIEW.
 • MOISTURE CONTENT NEARLY EQUAL TO OR GREATER THAN THE LIQUID LIMIT.
 NOTE: FIGURES BESIDE BORINGS INDICATE MOISTURE CONTENT IN PERCENT.
 BERM MATERIAL.
 TOP SOIL. TS=X' = APPROX. DEPTH.
 -SAMPLES TESTED-
 LAB. NOS. SO-1747-1763 INCL. & 1768.
 MOISTURE DENSITY SAMPLE- LAB. NO. SO-1768.

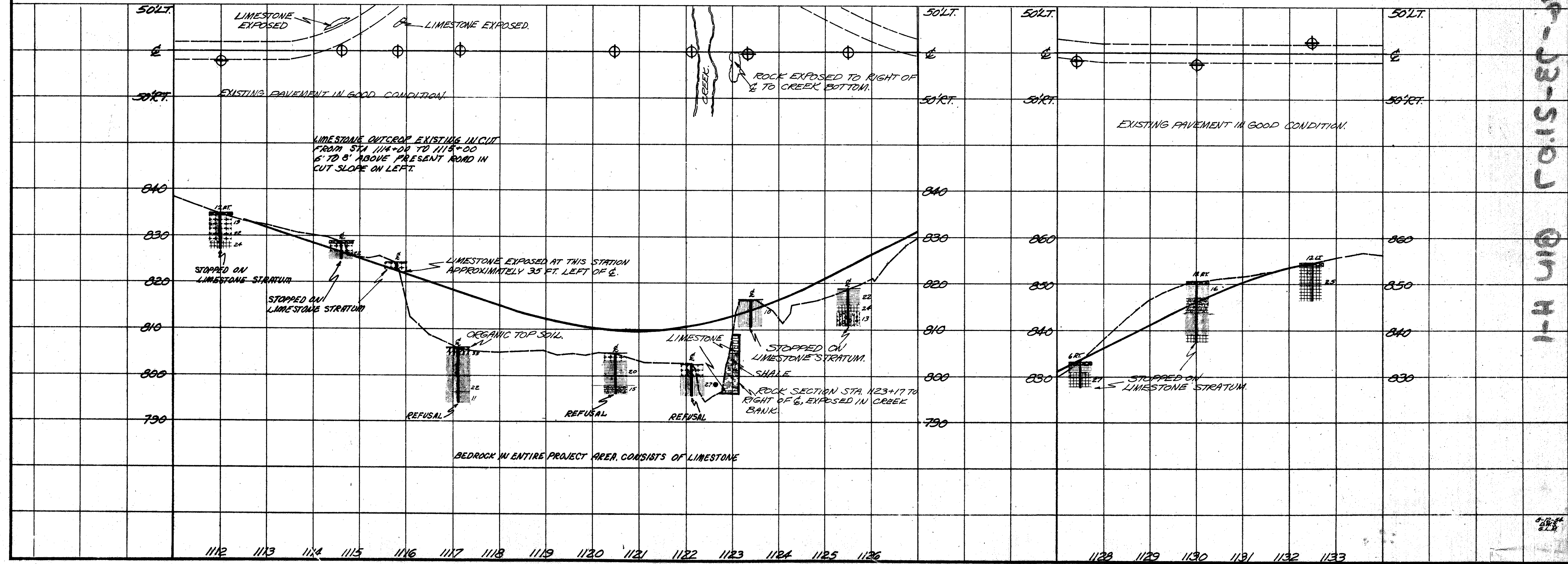
SOIL PROFILE
HIGHLAND COUNTY.
HIG-73-(21.07).
STATE HIGHWAY TESTING AND RESEARCH LABORATORY
 O. S. U. CAMPUS, COLUMBUS, OHIO

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

FED. NO.-S-553-6



LOCATION MAP



HIG-73-5103 0114-1