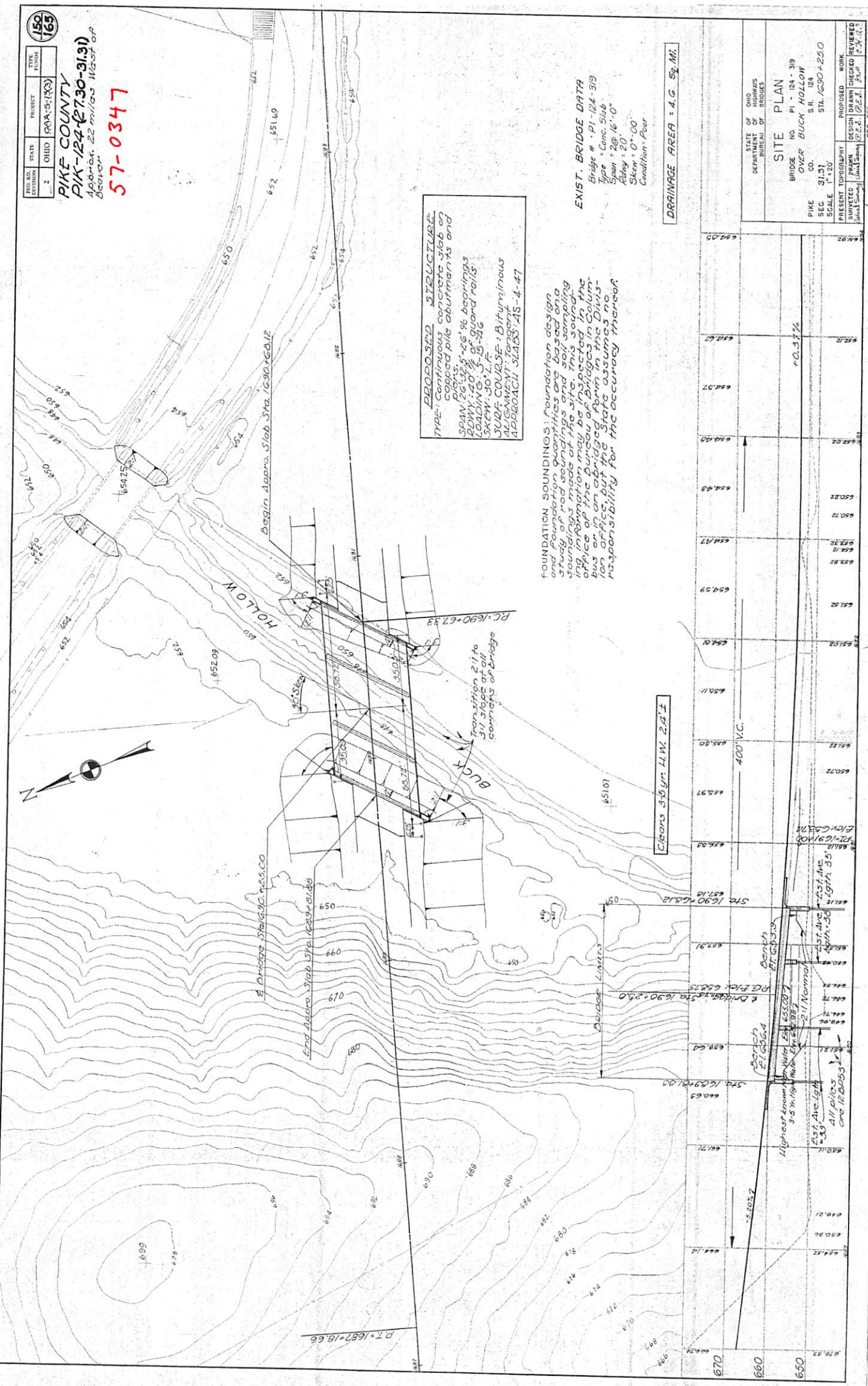


PROJ. NO.	STATE	PROJECT	TYPE
150	OHIO	68A-51(33)	BRIDGE

PIKE COUNTY
 PIK-124 (2730-3131)
 APPROX. 22 miles West of
 Beavon
57-0347



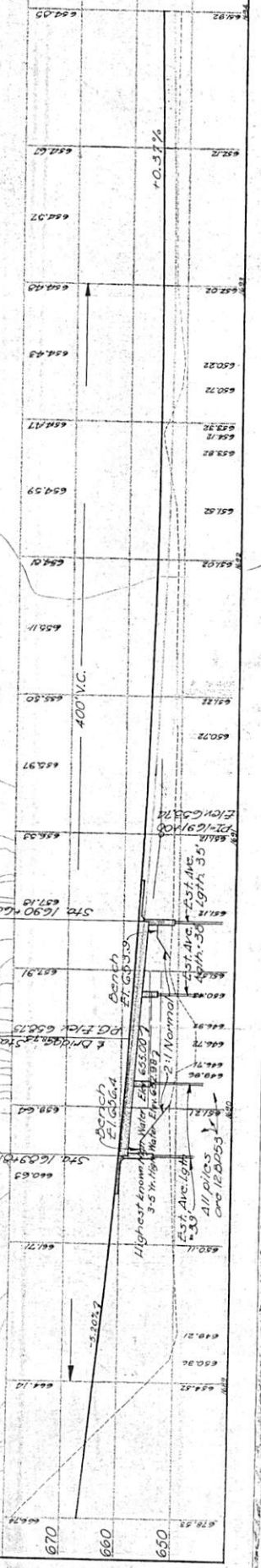
PROPOSED STRUCTURE
 TYPE: Continuous concrete slab on capped pile abutments and piers.
 SPAN: 60'-5'-26" % bearings
 LOWY: 6'-0" % and rails
 LOADING: 5-5-5 and rails
 SKYW: 30' L.F.
 CURF COURSE: Bituminous
 ALIGNMENT: Tangent
 APPROACH SLABS: AS-4-47

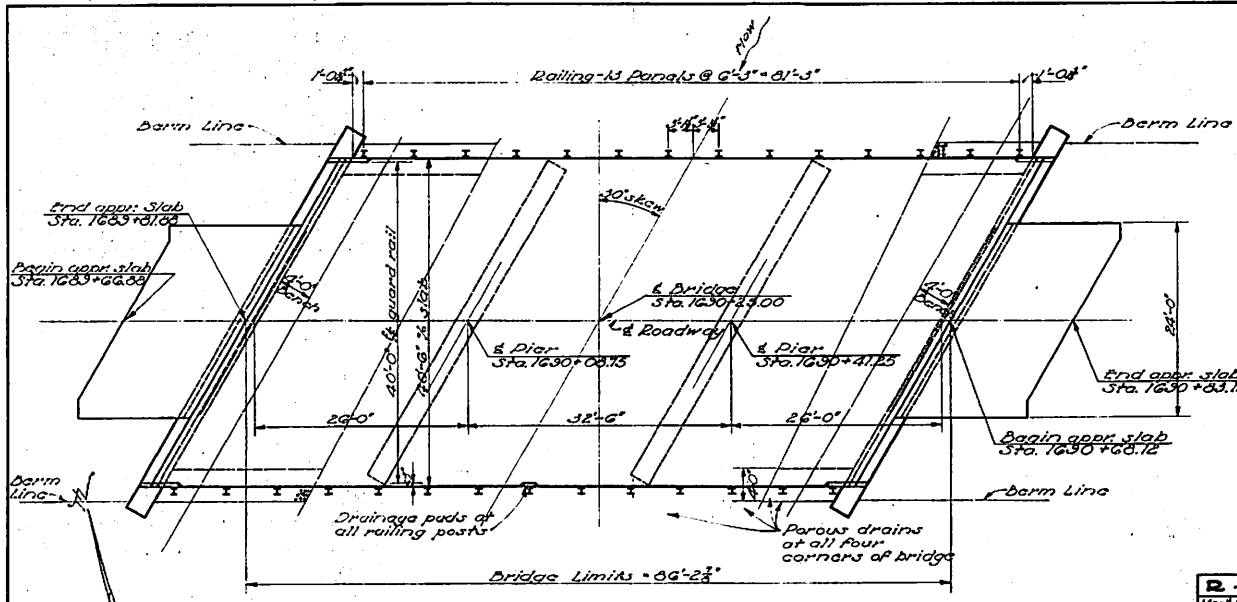
FOUNDATION SOUNDINGS: Foundation design and foundation quantities are based on soundings as soundings and soil sampling information may be in the files of the office of the Bureau of Bridges in Columbus or in an abridged form in the Division office, but the State assumes no responsibility for the accuracy thereof.

EXIST. BRIDGE DATA
 Bridge # - PI-124-319
 Type - Conc. Slab
 Span - 20' 16"-0"
 Skew - 0°-00'
 Condition - Fair

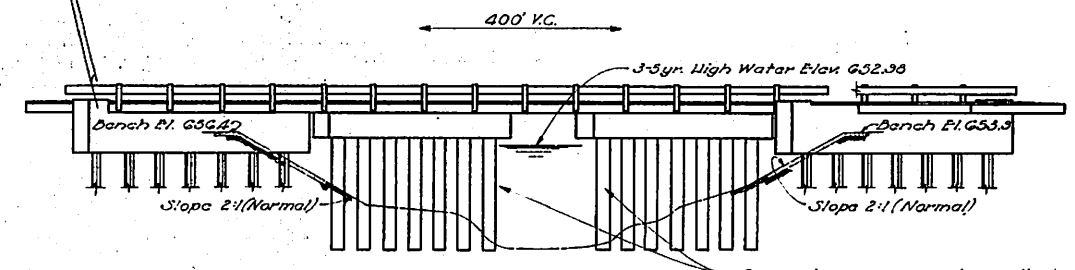
DRAINAGE AREA = 4.6 SQ. MI.

STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES	
SITE PLAN	
BRIDGE NO.	PI - 124 - 319
OVER	BUCK HOLLOW
CO.	SN. 124
PIKE	SEC. 31.31
SCALE	1" = 50'
PRESENT TOPOGRAPHY	PROPOSED WORK
DESIGNED BY	REVISION
CHECKED BY	DATE
APPROVED BY	DATE





GENERAL PLAN



GENERAL ELEVATION

ESTIMATED QUANTITIES

Item	Total Unit	Description	Abut.	Piers	Super	Gar.	As Built
F-2	57 Cu.yd	Unclassified excavation		57			
S-1	177 Cu.yd	Class C concrete, superstructure and pier caps		25	152		
S-1	60 Cu.yd	Class C concrete, abutments	60				
S-3	369 Sq.yd	Type C waterproofing			369		
S-4	2200 Lbs.	Reinforcing steel	5410	3731	30637	122	
S-5	14 Sq. Ft.	1/2 Preformed expansion joint filler			14		
S-14	17240 Lin.Ft.	Railings (Type I-15.13 with steel posts)			17240		
S-16	Lump Sum	First test pile			Lump		
S-18	1060 Lin.Ft.	Steel piling, 12 DR53	520	540	Lump	520	582.14
S-24	Lump Sum	Removal of existing structure			Lump		0
S-29	11 Cu.yd	Porous drains on embankment slopes			11		
F-35	27 Cu.yd	Asphaltic concrete surface course, Type A' or C' (70-80)				27	

GENERAL NOTES

REFERENCE: shall be made to Standard Drawings CS-1-47, revised 1-20-43, A-1-43, D-2-43 and P-1-43, Dated 1-21-43.

REMOVAL OF EXISTING STRUCTURE: When no longer needed to maintain traffic, the existing structure shall be removed and become the property of the Contractor. Existing substructure shall be removed to ground line and banks dressed to 2:1 slope. Waste masonry may be disposed of as bank protection as directed by the Engineer. Dressing of slopes included with Item S-24. Removal of existing structure for payment.

EXCAVATION: quantity includes the removal of fill material between top of earth bench and bottom of abutment cross-beam.

PILING: shall be driven with a steam hammer of not less than 7000* energy per blow to firm contact with shale for the pier piles and preferably also

For the abutment piles. The necessary penetration shall be considered as attained when the capacity according to the formula in Sec. 5-10.03 is at least 33 tons per pile for the pier piles and 35 tons for the abutment piles if a 7000* hammer is used, or 33 tons for the pier piles and 28 tons for the abutment piles if a 15000* hammer is used and if the length of penetration of the pier piles and preferably also the abutment piles is approximately equal to the depth to shale according to the bridge foundation investigation report. If a capacity rating of the hammer is between these values, the required formula capacity shall be determined by interpolation. (The design load is 36 tons per pile for the pier piles and 28 tons for the abutment piles.)

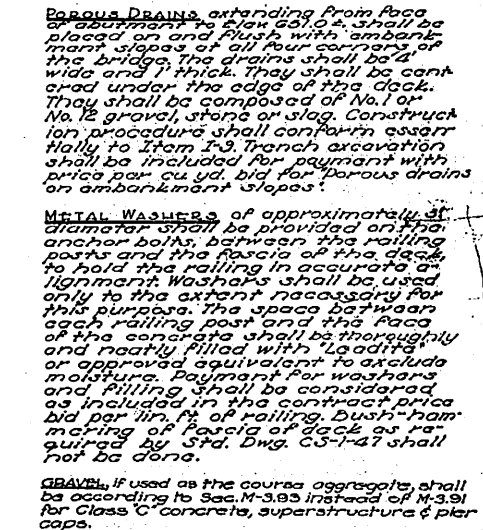
SURFACE FINISH OF CONCRETE: fascia of deck slab shall receive a rubbed surface finish. All other exposed surfaces shall be governed by the provisions of Item S-1.

DITUMINOUS SURFACE COURSE: 1 1/2" Asphaltic concrete, Item 133, laid in two 3/4" courses.

REINFORCING STEEL LIST

No.	Size	Length	Weight	Remarks
SUBSTRUCTURE				
A	1" x 30	30.9	9723	U
B	1" x 30	22.9	2321	B
C	1" x 30	20.4	2044	B
D	1" x 18	20.3	1033	U
E	1" x 15	17.0	867	J
F	1" x 32	24.7	8834	J
G	1" x 40	12.7	1923	U
H	1" x 40	17.0	1809	U
J	3/4" x 40	15.0	1122	J
K	3/4" x 40	18.3	1127	J
L	3/4" x 12	24.0	5312	J
M	3/4" x 12	24.0	4038	J
ABUTMENTS				
A7a	1" x 48	25.7	3663	S
A2a	3/4" x 120	6.5	1123	B
A2b	3/4" x 30	3.0	32	S
A2c	3/4" x 56	5.3	136	B
A2d	3/4" x 6	6.5	30	B
A2e	3/4" x 6	6.5	37	B
A2f	3/4" x 60	5.6	306	S
A2g	3/4" x 8	10.8	55	S
PIERS				
P0a	1" x 48	25.7	1073	S
P7a	1" x 32	22.9	2122	S
P2a	3/4" x 56	5.3	136	B
P2b	3/4" x 6	6.5	400	B
REPLACEMENT BARS				
B50	1" x 1	7.5	40	S
B51	1" x 2	6.0	26	S
B52	1" x 1	6.5	17	S
B53	1" x 1	5.7	9	S
B54	1" x 1	5.7	6	S
B55	1" x 1	5.3	4	S

Note: The bar size designations shown do not correspond with the size designations given in the January 1, 1933 edition of the Construction and Materials Specifications.



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

**GENERAL PLAN, ELEVATION,
NOTES & ESTIMATED QUANTITIES & REINFORCING STEEL LIST**

BRIDGE NO. PI-124-313
OVER BUCK HOLLOW

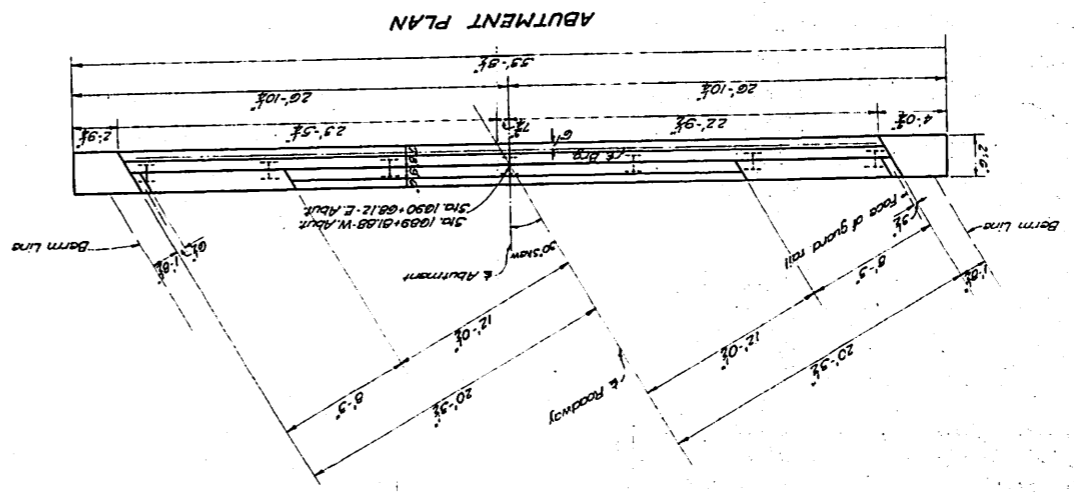
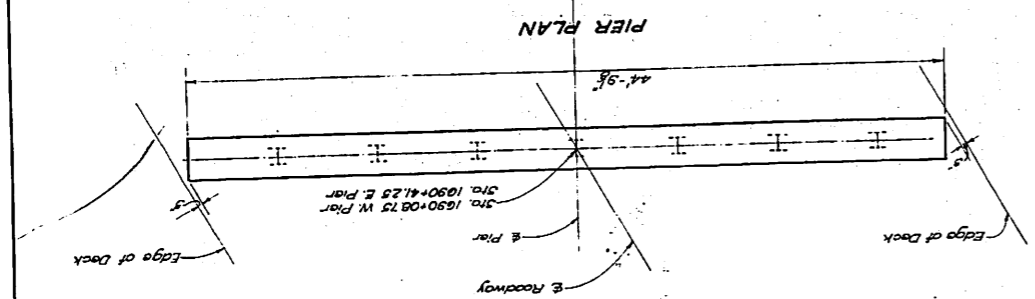
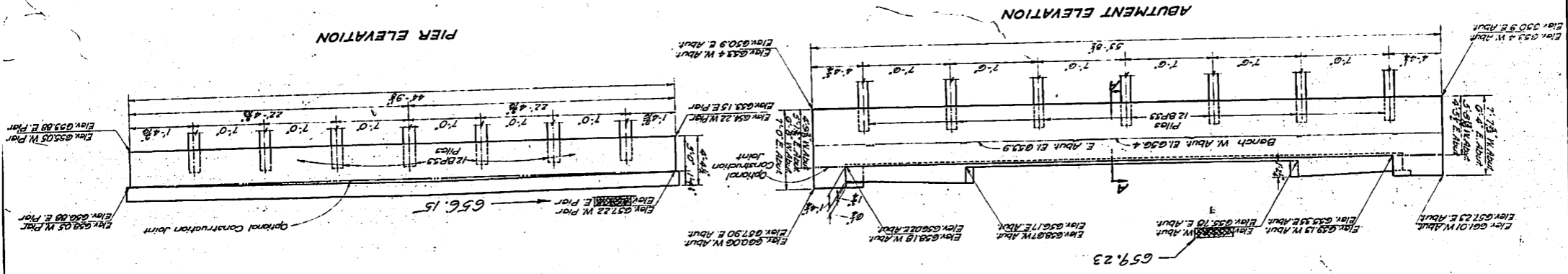
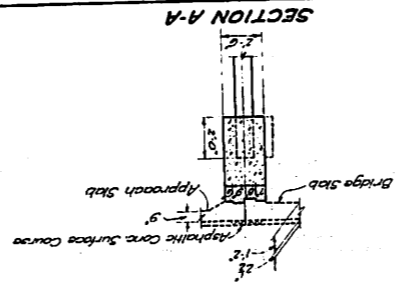
Pike County
Sta. 1620+26.00

Prepared by: *Chas. H. S.* Date: *Jan.*
Checked by: *R.H.W.* Date: *1/17/43*
Approved by: *C.F.D.* Date: *2-21-43*

DATE	BY	CHKD	APP'D
8-21-53	JDL	JDL	JDL
PIKE COUNTY SEC. PIK-124-31.31 STA. 1090+25.00			
BRIDGE No. P1-124-319 OVER BUCK HOLLOW			
PIER & ABUTMENT DETAILS			
BUREAU OF BRIDGES AND ROAD CONSTRUCTION DEPARTMENT OF HIGHWAYS STATE OF OHIO			

PENCIL REVISIONS
June 9, 1954
KED

NOTE:
For details of pier and abutments
not shown, see Sid. Dwg. Nos. P-1-49
and P-1-45, dated 7-21-49.



153	2	OHIO	04A-5-10(3)
	PIK-124-31.31	PROJECT	PIKE COUNTY

FOUR DIVISION	STATE	PROJECT	TYPED INDEX
2	OHIO	5-549(1)	

AREA CURVE DATA
 PI 1487.40 BS
 Δ 10.55'
 R 100.00'
 L 200.00'
 JOHN H. CHANDLER
 Parcel No 83
 5.353 Acres
 SCALE 1" = 50'

AREA CURVE DATA
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