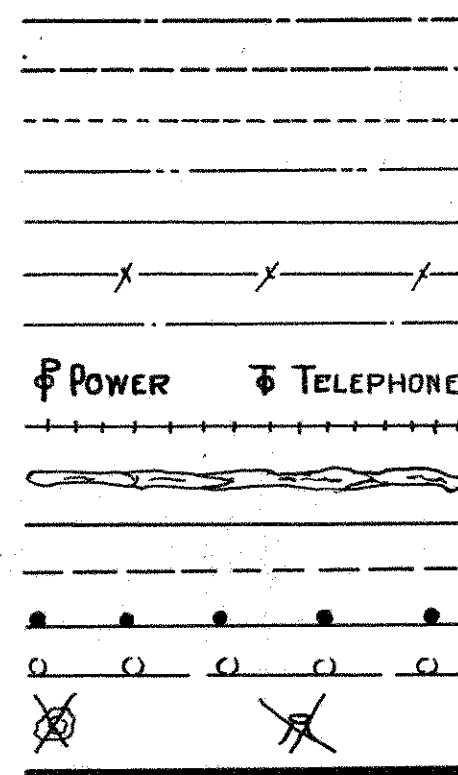


MICROFILMED
1 APR 8 1985

CONYENTIONAL SIGNS

COUNTY LINE
TOWNSHIP LINE
SECTION LINE
CORPORATION LINE
PROPERTY LINE
FENCE LINE
CENTER LINE
POLE LINE
RAILROAD
HEDGE
DRAIN PIPE (NEW)
DRAIN PIPE (OLD)
GUARD RAIL (NEW)
GUARD RAIL (OLD)
TREES & STUMPS TO BE REMOVED
R/W LINE



LINE DATA

BEGIN WORK STA. 262+30
BEGIN PROJECT STA. 264+16
END PROJECT STA. 275+26
END WORK STA. 278+00
ADD FOR RIVER ROAD APPROACH STA. 0+10 TO STA. 7+00 = 690 LIN. FT.

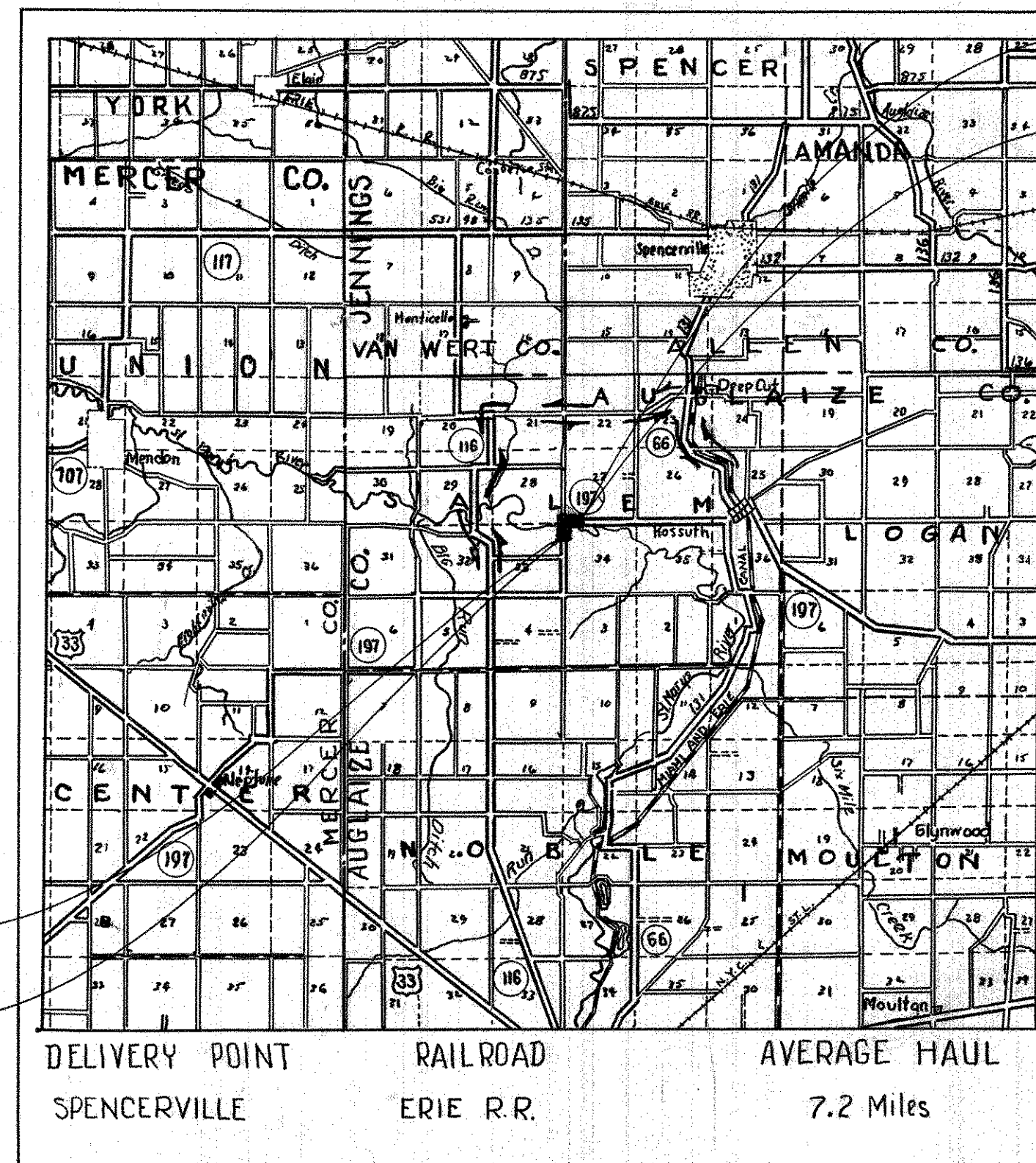
NET LENGTH OF PROJECT = 110.00 LIN. FT. = 0.210 MILE
NET LENGTH OF WORK = 2260.00 LIN. FT. = 0.428 MILE

INDEX OF SHEETS

TITLE SHEET
TYPICAL SECTIONS
GENERAL NOTES
TABLES
CALCULATIONS
GENERAL SUMMARY
DETAILS
PLAN AND PROFILE
CROSS SECTIONS
RIVER ROAD APPROACH
STRUCTURE UNDER 20 FT.
STRUCTURE OVER 20 FT.
RIGHT-OF-WAY PLANS

1
2
3-4
5
5
6-7
8
9-11
12-21
22-26
27
28-42
43

STA. 264+16
BEGIN PROJECT



LOCATION PLAN

SCALE : 1" = 2 MILES

PORTIONS TO BE IMPROVED
STATE HIGHWAYS
OTHER ROADS
DETOUR

~ SCALE ~

PLAN
PROFILE HORIZONTAL
PROFILE VERTICAL
CROSS SECTIONS
CHANNEL SECTIONS

1" = 50'-0"
1" = 50'-0"
1" = 5'-0"
1" = 5'-0"
1" = 10'-0"

APR 16 1963
GROUND PHOTOGRAPH

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
AUG - 197 - (5.00 - 5.16)
SALEM TOWNSHIP
AUGLAIZE COUNTY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	STATE	1/43

APR 16 1963
GROUND PHOTOGRAPH

AUGLAIZE COUNTY
AUG - 197 - (5.00-5.16)

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 NECESSARY FOR THIS IMPROVEMENT WILL BE PROVIDED BY THE STATE OF OHIO.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING OF THE HIGHWAY TO TRAFFIC, EXCEPT AS NOTED ON SHEET No 4, AND THAT A DETOUR WILL BE PROVIDED AS INDICATED ON THE PLANS.

APPROVED DATE 12-23-59 P. H. Johnson
DIVISION DEPUTY DIRECTOR

APPROVED DATE 3-22-60 Sam E. Neefzer
DEPUTY DIRECTOR OF PLANNING & PROGRAMMING

APPROVED DATE 3-18-60 D. H. Overman
ENGINEER OF BRIDGES

APPROVED DATE 3-21-60 W. M. Mearns
ENGINEER OF LOCATION & DESIGN

APPROVED DATE 3-21-60 C. W. McCaughey
DEPUTY DIRECTOR OF DESIGN & CONSTRUCTION

APPROVED DATE 3-23-60 Pat Berry
FIRST ASSISTANT DIRECTOR

APPROVED DATE 3-23-60 E. J. Dutton
DIRECTOR OF HIGHWAYS

STANDARD	DRAWINGS
DR-1	1-3-55 AS-1-54 12-1-54
L-3	4-1-50 CSB-1-55 2-2-59
L-3A	4-1-50 (Sheets 1, 2, & 6)
RI-1	7-15-58
S27 RC 3	2-20-45
S27 RC 4	1-4-54
I-15 N°1	5-21-59
I-15 N°2	6-1-57
I-15 N°2A	5-21-59
G-207	6-1-56
T-35	1-2-56
I-1, 2, 3, 4, 5	4-24-58
L-1	4-1-50

APR 16 1963
GROUND PHOTOGRAPH

FILE NUMBER	AUGLAIZE COUNTY	AUG - 197 - (5.00-5.16)	SUPPLEMENTAL SPECIFICATIONS
	DATE OF LETTING CONTRACT No		S-101 12-2-59

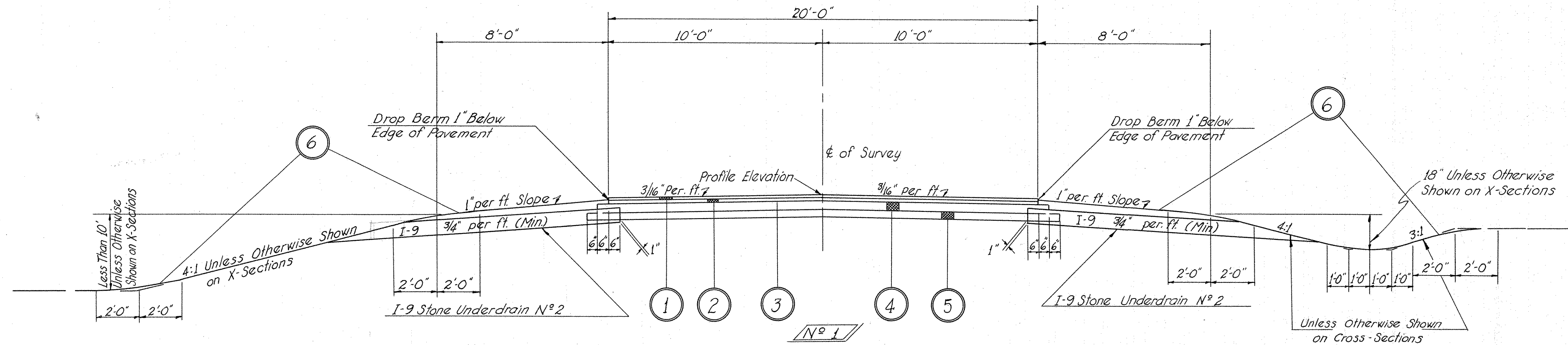
TYPICAL SECTIONS S.R. 197 AND RIVER ROAD

TYPE T-35

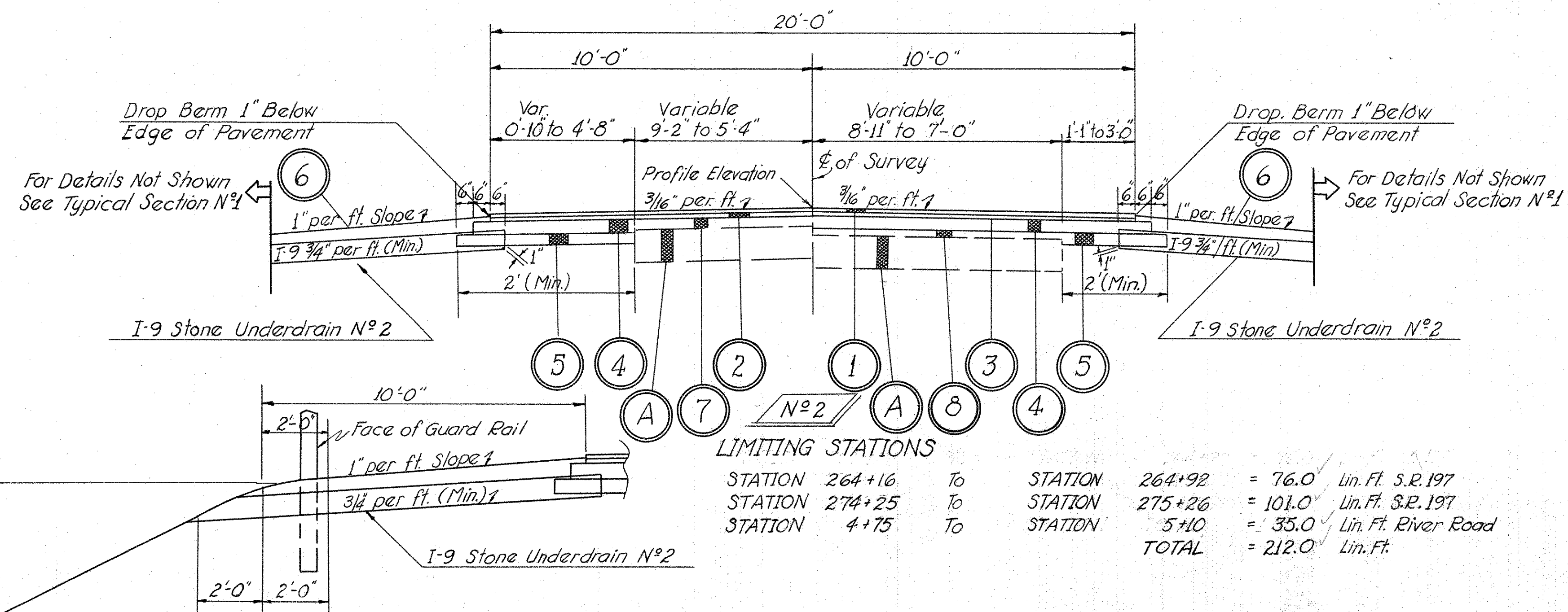
Scale : $\frac{3}{8}" = 1'-0"$

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		2/43

AUGLAIZE COUNTY
AUG-197 -(5.00-5.16)



STATION 264+92.00	To	STATION 269+06.75	=	414.75	Lin. Ft. S.R. 197
STATION 269+06.75	To	STATION 271+43.25	=	91.75	Lin. Ft. S.R. 197
STATION 271+43.25	To	STATION 272+35.00	=	180.00	Lin. Ft. S.R. 197
STATION 272+35.00	To	STATION 274+25.00	=	475.00	Lin. Ft. River Road
STATION 0+00.00	To	STATION 4+75.00	=	1161.50	Lin. Ft.
				TOTAL	



STATION 264+16	To	STATION 264+92	=	76.0	Lin. Ft. S.R. 197
STATION 274+25	To	STATION 275+26	=	101.0	Lin. Ft. S.R. 197
STATION 4+75	To	STATION 5+10	=	35.0	Lin. Ft. River Road
				TOTAL	= 212.0 Lin. Ft.

Typical Guard Rail Detail to be used when and where Guard Rail is called for on the plans.

TYPICAL GUARD RAIL DETAIL

- ① ITEM T-35 $1\frac{1}{4}"$ Asphaltic Concrete Surface Course, Type C (85:100)
- ② ITEM B-35 $1\frac{3}{4}"$ Asphaltic Concrete Leveling Course. (85:100)
- ③ ITEM T-30 Bituminous Prime Coat applied at 0.4 Gal./Sq. Yd. Sec. M-5.7 RT-2 or 3
- ④ ITEM B-19 5" Aggregate Base Course.
- ⑤ ITEM I-22 4" Subbase
- ⑥ ITEM L-9 Seeding and Protecting
- ⑦ ITEM B-19 Variable 0" to 5" Aggregate Base Course
- ⑧ ITEM I-22 Variable 0" to 4" Subbase
- Ⓐ EXISTING PAYEMENT : Consists of 3" of Surface Treatment on 7" of Gravel.

AUGLAIZE COUNTY
AUG - 197- (5.00-5.16)

GENERAL NOTES

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-1.

FIELD OFFICE - The Contractor shall provide a suitable Field Office for the exclusive use of the State Employees, in accordance with Section S-0.01 (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 except at the intersection at Sta. 272+35 where west-bound traffic on S.R.197 will be required to stop.
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 structures 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 expense of their respective owners, unless otherwise noted on these plans.

UNDERGROUND UTILITIES - The locations of the underground utilities shown on the plans have been obtained by diligent field checks and searches of available records. It is believed that they are essentially correct, but the State of Ohio makes no guarantees as to their accuracy or completeness.

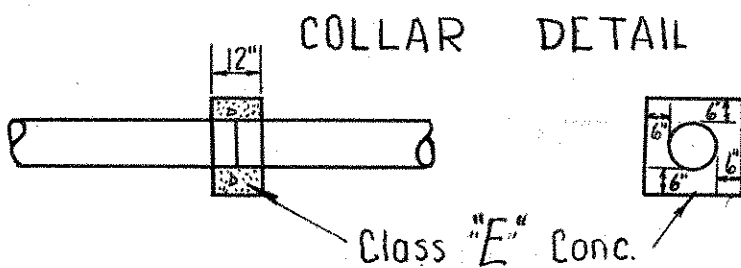
ROUNDING OF CORNERS ON CROSS SECTIONS - The rounded corners shown on Standard Drawing RI-1, apply to all cross sections even though otherwise shown in these plans.

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 G-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.

PIPE CULVERT - When bell and spigot pipe is used, any necessary pipe cut-offs will be made at the spigot end of the length of pipe adjacent to the end length. When tongue and groove pipe is used, the length of pipe next to the end length shall be cut and butt joint formed with a collar as shown. The cost of the joint and collar shall be included in the Contract Unit Price bid for the pertinent pipe item.



GENERAL NOTES (CONT.)

AUGLAIZE COUNTY
AUG - 197 - (5.00-5.16)

ROADWAY DRAINAGE - Additional field drains which may be encountered during construction shall be outletted as follows:

(a) If an existing field drain collector intersects the proposed roadway at an elevation lower than the proposed ditch on the upstream side, the drain shall be replaced within the limits of the Right-of-Way with I-2 Storm Sewer (Use I-2 Storm Sewer, Cl. B" under pavement beneath paved areas) of one commercial size larger than the existing drain. Locations, grades, and depths required shall be determined by the Engineer during construction. The following estimated quantities are provided to be placed as directed by the Engineer:

I-2, Cl. B	8"	20 Lin. Ft.
I-2, Cl. B Under pavement	8"	60 Lin. Ft.
I-2, Cl. B	10"	20 Lin. Ft.
I-2, Cl. B Under pavement	10"	60 Lin. Ft.
I-2, Cl. B	12"	20 Lin. Ft.
I-2, Cl. B Under pavement	12"	60 Lin. Ft.

(b) If an existing field drain collector intersects the proposed roadway ditch on the upstream side at an elevation above the roadway ditch, the field drain shall be outletted to the roadway ditch by means of I-3 Pipe Outlets. The locations, grades and depths required shall be determined by the Engineer during construction. The following quantities are provided to be placed as directed by the Engineer:

I-3, Pipe Outlets, Sec. M-6.4(h) w/o perforations	6"	20 Lin. Ft.
I-3, Pipe Outlet, Sec. M-6.4(c)	8"	20 Lin. Ft.
I-3, Pipe Outlet, Sec. M-6.4(c)	10"	10 Lin. Ft.
I-3, Pipe Outlet, Sec. M-6.4(c)	12"	10 Lin. Ft.

(c) If existing field drain laterals intersect the proposed roadway they shall be intercepted by an I-3 pipe and carried to a convenient outlet as directed by the Engineer. Locations, pipe sizes, depths, and grades shall be determined by the Engineer during construction. The following estimated quantities are provided to be placed as directed by the Engineer:

I-3	6"	100 Lin. Ft.
I-3	8"	100 Lin. Ft.
I-3	10"	100 Lin. Ft.
I-3	12"	100 Lin. Ft.

GRADING TOLERANCES - For areas in front of residences, for areas between curb and sidewalk, and for other areas specifically indicated on the plans, the seed bed shall be prepared to provide a smooth surface. All stones larger than one inch in diameter shall be removed from the surface of the seed bed. Hand raking will be required in areas inaccessible to machines and hand raking may be required, if directed by the engineer, in all aforementioned areas if machines used do not provide results equivalent to results obtained by hand raking. Cost of this additional work shall be included in the unit price bid for Roadway Excavation, Item E-1.

LIMITING STATIONS

Sta. 275+70	to	Sta. 276+57 on Left	S.R. 197
Sta. 5+42	to	Sta. 6+16 on Left	River Road

MAINTAINING TRAFFIC - The highway will be closed to traffic and the detour shown on sheet N° 1 will be provided for not more than 150 calendar days between the dates of May 1 and November 1. At all times that the detour is not provided, the highway shall be kept open to traffic, and two way traffic within the limits of work as shown on the plans, shall be maintained in accordance with Sec. G-7.07.

Local traffic shall be maintained in accordance with Sec. G-4.05.

The cost of all of the above except Item T-10, Traffic Compacted Surface Course for Maintaining Traffic, and Item M-10 Calcium Chloride, Furnished and Applied for Maintaining Traffic, shall be included in the lump sum bid for Maintaining Traffic, including lights, signs, and barricades. The estimated quantities of Item T-10, Traffic Compacted Surface Course for Maintaining Traffic, and Item M-10 Calcium Chloride, Furnished and Applied for Maintaining Traffic, provided in these plans shall be used if and as directed by the Engineer.

ESTIMATED QUANTITIES

Item T-10	Traffic Compacted Surface Course for Maintaining Traffic	30 Cu. Yds.
Item M-10	Calcium Chloride, Furnished and Applied for Maintaining Traffic	0.6 Tons

AUGLAIZE COUNTY
AUG - 197 - (5.00 - 5.16)

ITEM T-35 ASPHALTIC CONCRETE SURFACE COURSE TYPE "C" (85-100)

From Typical Section N ^o 1 = 1161.50 Lin.Ft. 1161.50 x 20 x 1.25 ÷ 12 ÷ 27 =	89.6 Cu.Yds.
From Typical Section N ^o 2 = 212.00 Lin.Ft. 212.00 x 20 x 1.25 ÷ 12 ÷ 27 =	16.4 Cu.Yds.
Total	106.0 Cu.Yds.
Total To General Summary	106.0 Cu.Yds.

ITEM B-35 ASPHALTIC CONCRETE LEVELING COURSE (85-100)

From Typical Section N ^o 1 = 1161.50 Lin.Ft. 1161.50 x 20 x 1.75 ÷ 12 ÷ 27 =	125.5 Cu.Yds.
From Typical Section N ^o 2 = 212.00 Lin.Ft. 212.00 x 20 x 1.75 ÷ 12 ÷ 27 =	22.9 Cu.Yds.
Total	148.4 Cu.Yds.
Total To General Summary	148.4 Cu.Yds.

ITEM T-30 BITUMINOUS PRIME COAT (Sec. M-5.7 R.T. 2 or 3) @ 0.4 Gal. per Sq.Yd.

From Typical Section N ^o 1 = 1161.50 Lin.Ft. 1161.50 x 20 ÷ 9 x 0.4 =	1032.4 Gal.
From Typical Section N ^o 2 = 212.00 Lin.Ft. 212.00 x 20 ÷ 9 x 0.4 =	188.4 Gal.
Total	1220.8 Gal.
Total To General Summary	1220.8 Gal.

ITEM B-19 AGGREGATE BASE COURSE

From Typical Section N ^o 1 = 1161.50 Lin.Ft. 1161.50 x 21 x 5 ÷ 12 ÷ 27 =	376.4 Cu.Yds.
From Typical Section N ^o 2 = 212.00 Lin.Ft. Estimated Quantity =	65.7 Cu.Yds.
Total	442.1 Cu.Yds.
Total To Calculations	442.1 Cu.Yds.
Total To General Summary	442.1 Cu.Yds.

ITEM I-22 SUBBASE

From Typical Section N ^o 1 = 1161.50 Lin.Ft. 1161.50 x 22 x 4 ÷ 12 ÷ 27 =	315.5 Cu.Yds.
From Typical Section N ^o 2 = 212.00 Lin.Ft. Estimated Quantity =	34.2 Cu.Yds.
From Approach Slab Table	13.0 Cu.Yds.
Total	362.7 Cu.Yds.
Total To Calculations	362.7 Cu.Yds.
Total To General Summary	362.7 Cu.Yds.

ITEM E-1 COMPACTED SUBGRADE

From Typical Section N ^o 1 = 1161.50 Lin.Ft. 1161.50 x 20 ÷ 9 =	2581.1 Sq.Yds.
From Approach Slab Table	111.2 Sq.Yds.
Total	2692.3
Total To General Summary	2692.3 Sq.Yds.

ITEM E-9 REMOVAL OF TREES AND STUMPS

Estimated 104 Trees and 1 Stumps to be removed and disposed of.	
Total To General Summary	Lump

ITEM E-11 WATER

From Earthwork Tables	24,363.0 Cu.Yds.
From B-19 Calculations	442.1 Cu.Yds.
From I-22 Calculations	362.7 Cu.Yds.
From P/P Sheet N ^o s 9,10,11,22 & B-19 & I-22 Quantities	103.7 Cu.Yds.
Total	25271.5 Cu.Yds.
25,271.5 x 5 ÷ 1000 =	126.36 M Gals.
Total To General Summary	126.4 M Gals.

ITEM I-9 STONE UNDERDRAIN N^o 2

Estimated 859 Lin.Ft. of I-9 Stone Underdrain N°2 to be placed approximately ever 50 Ft. as directed by the Engineer.	
Total To General Summary	859 Lin.Ft.

ITEM L-9 COMMERCIAL FERTILIZER (12-12-12)

From Roadside Improvement Table	13,902 Sq.Yds.
L-10 Sodding from P/P Sheet N ^o s 10	280 Sq.Yds.
Total	14,182 Sq.Yds.
14,182 x 9/1000 x 20/2000 =	1.276 Tons
Total To General Summary	1.28 Tons

EARTHWORK TABLE

EARTHWORK TABLE					ROAD SIDE IMPROVEMENT
Sheet N ^o	Station		E-1	E-1	L-9
			Excavation	Embankment	Seeding and Protecting
	From	To	Cu. Yds.	Cu. Yds.	Sq. Yds.
17	262+30	274+00	71	11,838	7,616
19	274+00	277+60	57	954	1,829
24	0+00	7+00	433	3,738	4,457
	From Channel Sections (St. Marys River)			7,833	
Total To Calculations			561	24,365	13,902
Total To General Summary			561	24,365	13,902

EARTHWORK TOTALS

E-1 Excavation from Earthwork Table	561 Cu.Yds.
E-3 Channel Excavation (River)	18,997 Cu.Yds.
E-3 Channel Excavation (P/P Sheet N ^o 23)	29 Cu.Yds.
Total Excavation	19,587 Cu.Yds.

APPROACH SLAB TABLE

Sheet N ^o	Station		I-7 Reinforced Concrete Approach Slab T=13"	E-1 Compacted Subgrade	I-22 Subbase	Remarks
			Sq.Yds.	Sq.Yds.	Cu.Yds.	
	From	To	Sq.Yds.	Sq.Yds.	Cu.Yds.	
10	269+06.75	269+31.75	55.6	55.6	6.5	
10	271+18.25	271+43.25	55.6	55.6	6.5	
Total To Calculations				111.2	13.0	
Total To General Summary						

AUGLAIZE COUNTY
AUG - 197 - (5.00 - 5.16)

GENERAL		SUMMARY
FROM	SHEET N ^o	

FROM SHEET N ^o															GRAND TOTAL	UNITS	DESCRIPTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
LINE N ^o	ITEM	4	5	9	10	11	22																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

GENERAL SUMMARY

AUGLAIZE COUNTY
AUG.-197- (5.00-5.16)

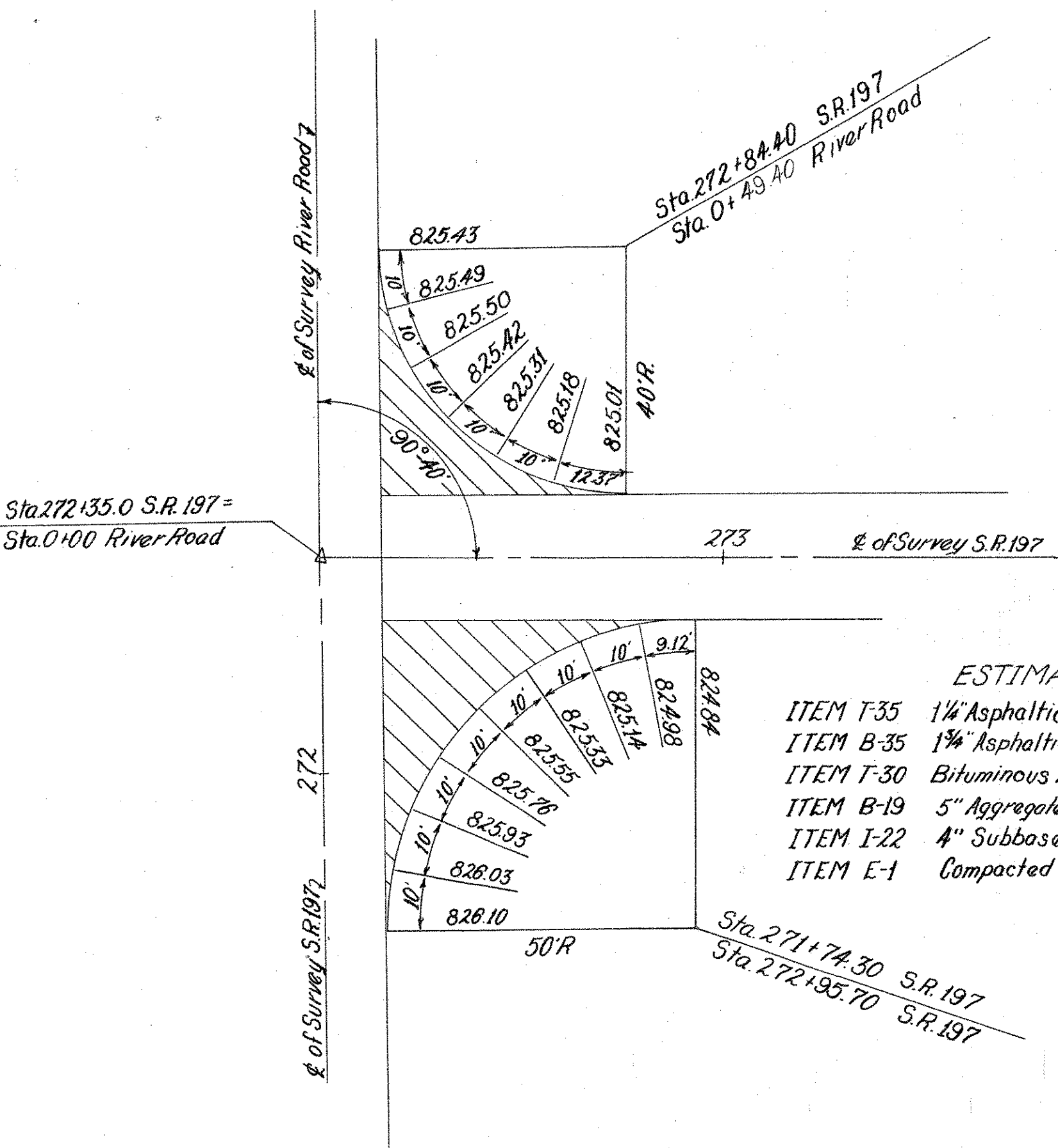
GENERAL																	SUMMARY		
LINE N ^o	ITEM	FROM SHEET N ^o															GRAND TOTAL	UNITS	DESCRIPTION
		4	5	9	10	11	22												
64																			
65																			
66	T-7		111.2														112	Sq. Yds.	Reinforced Concrete Approach Slabs (T=13")
67																			
68	T-22		362.7	2.8	11.4	7.2	5.6										390	Cu. Yds.	Subbase
69																			
70	T-30		1220.8	45.2	52.4	109.8	93.1										1522	Gal.	Bituminous Prime Coat: Sec. M-5.7, RT-2 or 3
71	T-35		106.0	6.0	5.4	15.5	10.6										144	Cu. Yds.	Asphaltic Concrete Surface Course, Type C" (85-100)
72																			
73																			
74																			
75																			
76																			
77																			
78																			
79																			
80																			
81																			
82																			
83																			
84																			
85																			
86																			
87																			
88																			
89																			
90																			STRUCTURE OVER 20 FT. SPAN
91																			Bridge N ^o AUG.-197-0512 For Estimated Quantities See Sheet N ^o 29
92																			
93																			
94																			
95																			
96																			
97																			
98																			
99																			
100																			
101																			
102																			
103																			
104																			
105																			
106																			
107																			
108																			
109																			
110																			
111																			
112																			
113																			
114																			
115																			
116																			
117																			
118																			
119																			
120																			
121																			
122																			
123																			
124																			
125																			
126																			

DETAIL SHEET

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

8
43

AUGLAIZE COUNTY
AUG-197 (5.00-5.16)



ESTIMATED QUANTITIES		
ITEM T-35	1 1/4" Asphaltic Concrete Surface Course	3.6 Cu.Yd.
ITEM B-35	1 1/4" Asphaltic Concrete Leveling Course	4.9 Cu.Yd.
ITEM T-30	Bituminous Prime Coat @ 0.4 Gal./sq.Yd.	40.1 Gal.
ITEM B-19	5" Aggregate Base Course	13.5 Cu.Yd.
ITEM I-22	4" Subbase	11.4 Cu.Yd.
ITEM E-1	Compacted Subgrade	100.2 Sq.Yd.

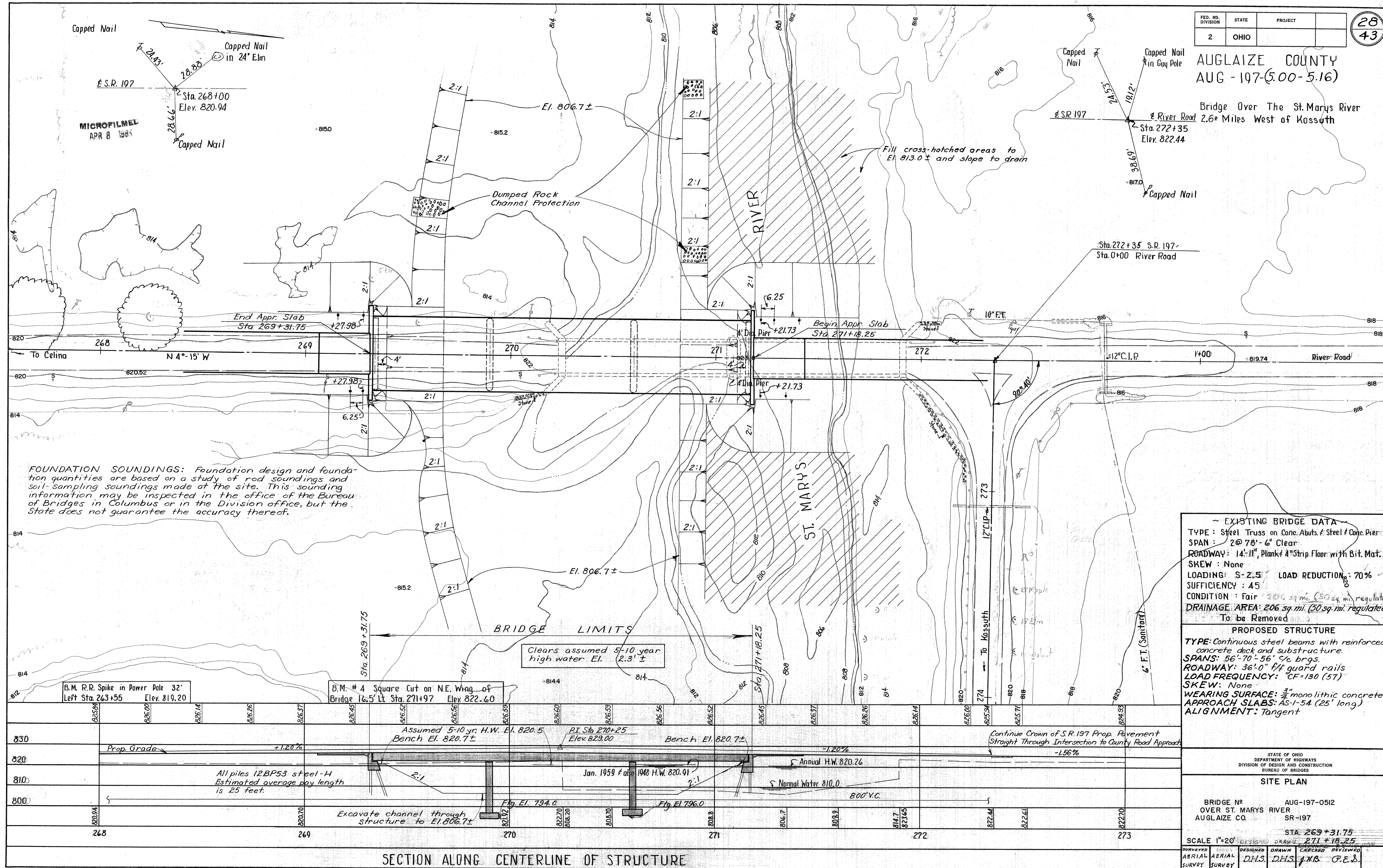
DETAIL OF APPROACH ROAD TURNOUT
Scale: 1"=20'-0"

~CODE~

- 1 1/4" T-35 Asphaltic Concrete Surface Course; on 1 1/4" B-35 Asphaltic Concrete Leveling Course; on T-30 Bituminous Prime Coat @ 0.4 Gal./sq.Yd.; on 5" B-19 Aggregate Base Course; on 4" I-22 Subbase.
- 1 1/4" T-35 Asphaltic Concrete Surface Course; on 1 1/4" B-35 Asphaltic Concrete Leveling Course; on T-30 Bituminous Prime Coat @ 0.4 Gal./sq.Yd.; on 5" B-19 Aggregate Base Course; on 4" I-22 Subbase.
- Feather: 0" to 1 1/4" T-35 Asphaltic Concrete Surface Course; on 0" to 1 1/4" B-35 Asphaltic Concrete Leveling Course
- Residence Drive & M.B. Approach: 2" T-35 Asphaltic Concrete Surface Course on T-30 Bituminous Prime Coat @ 0.4 Gal./sq.Yd.; on 5" B-19 Aggregate Base Course

AUGLAIZE COUNTY AUG - 197 (5.00-5.16)

Bridge Over The St. Marys River
2.6 Miles West of Kossuth



AUG-197-(5.00-5.16)

GENERAL NOTES

REFERENCE shall be made to Standard Drawing C5B-1-55, Sheets No. 1, 2, and 6, revised 2-2-59 and to Supplemental Specification S-101 dated 12-2-59.

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57 together with current revisions thereof.

EXCAVATION QUANTITY for the Rear Abutment includes the removal of material between the top of the earth bench and the bottom of the abutment crossbeam.

EXCAVATION QUANTITY for the forward Abutment includes the removal of fill material required for the construction of the abutment and the removal of fill material above the level of the earth bench.

REMOVAL OF EXISTING STRUCTURE: When no longer needed to maintain traffic, the existing structure shall be removed. Strip flooring and wheel guards, steel construction clips, steel beam railing, joists, and floor beams shall be carefully dismantled and piled along the right-of-way for disposal by the State's forces. Floor beams may be cut between connection angles and rod connecting plates. Strip floor may be removed in sections not to exceed 4 ft. in width.

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-13.05 is not less than the following value for a pile hammer of the indicated energy rating:

- 36 tons per pile using a 7000 ft. lb. hammer.
- 28 tons per pile using an 11,000 ft. lb. hammer.
- 26 tons per pile using a 15,000 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 25 tons per pile.

FOUNDATION BEARING PRESSURE: Pier footings are designed for a maximum bearing pressure of 15 tons per sq. ft.

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

SLAB THICKNESS is 7 1/4" which includes 3/4" for monolithic wearing surface.

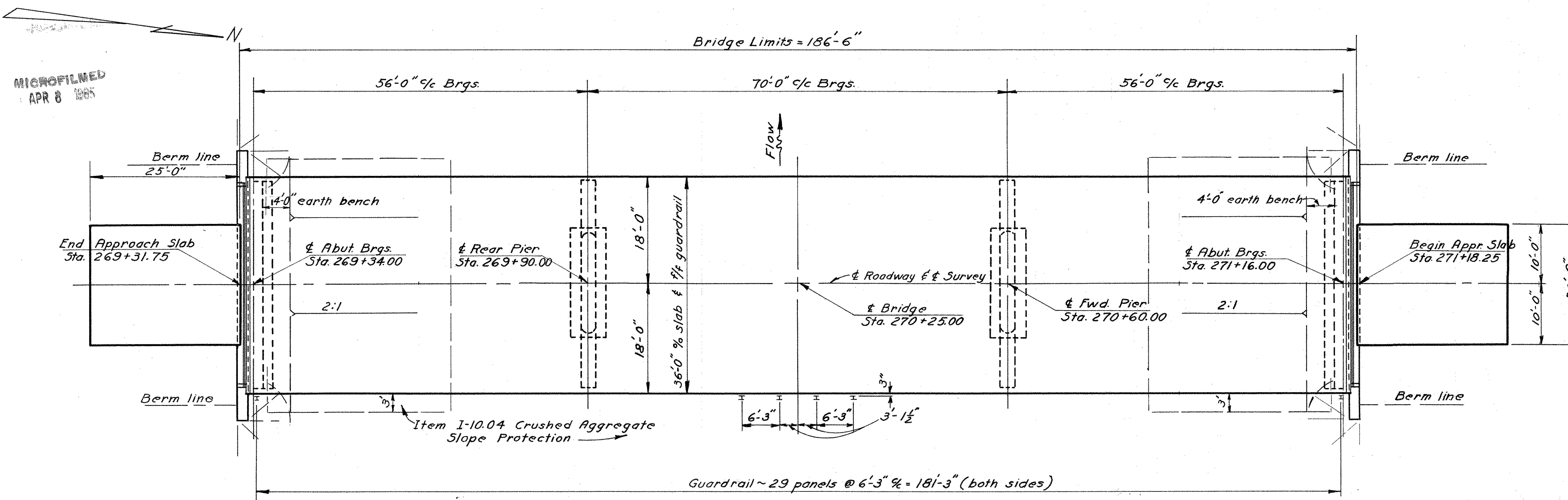
CAMBER: No camber of beams will be required.

PAINTING: After erection and after the shop coat has been cleaned and, where necessary, repainted in accordance with Sec. S-8.04, an additional coat of the same paint used in the shop shall be applied over the outside face of the outside steel beams and all sides of the bottom flange.

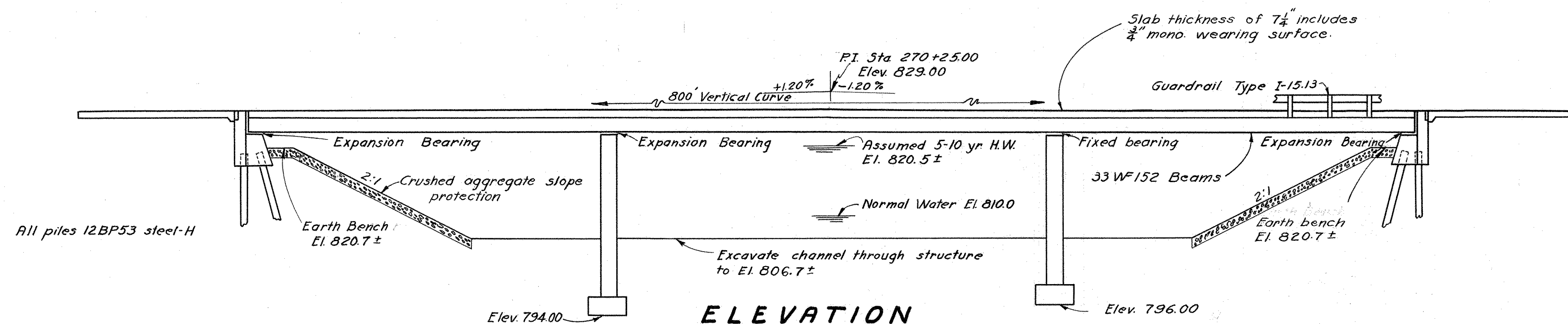
MACHINE FINISH: At the contractor's option, the top of the deck slab may be machine finished. Machine finishing, if used, shall be in accordance with the Proposal Note "Machine Finishing of Bridge Deck Slabs."

STEEL: See Proposal regarding A-373 steel.

STATE OF OHIO DEPARTMENT OF HIGHWAYS DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES						
GENERAL PLAN & ELEVATION NOTES & ESTIMATED QUANTITIES						
BRIDGE NO. AUG-197-0512 OVER ST. MARYS RIVER AUGLAIZE COUNTY STA. 269+31.75 271+18.25						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
WFG	WFG	R.P.M.	M.R.G.	WFG	3-3-60	



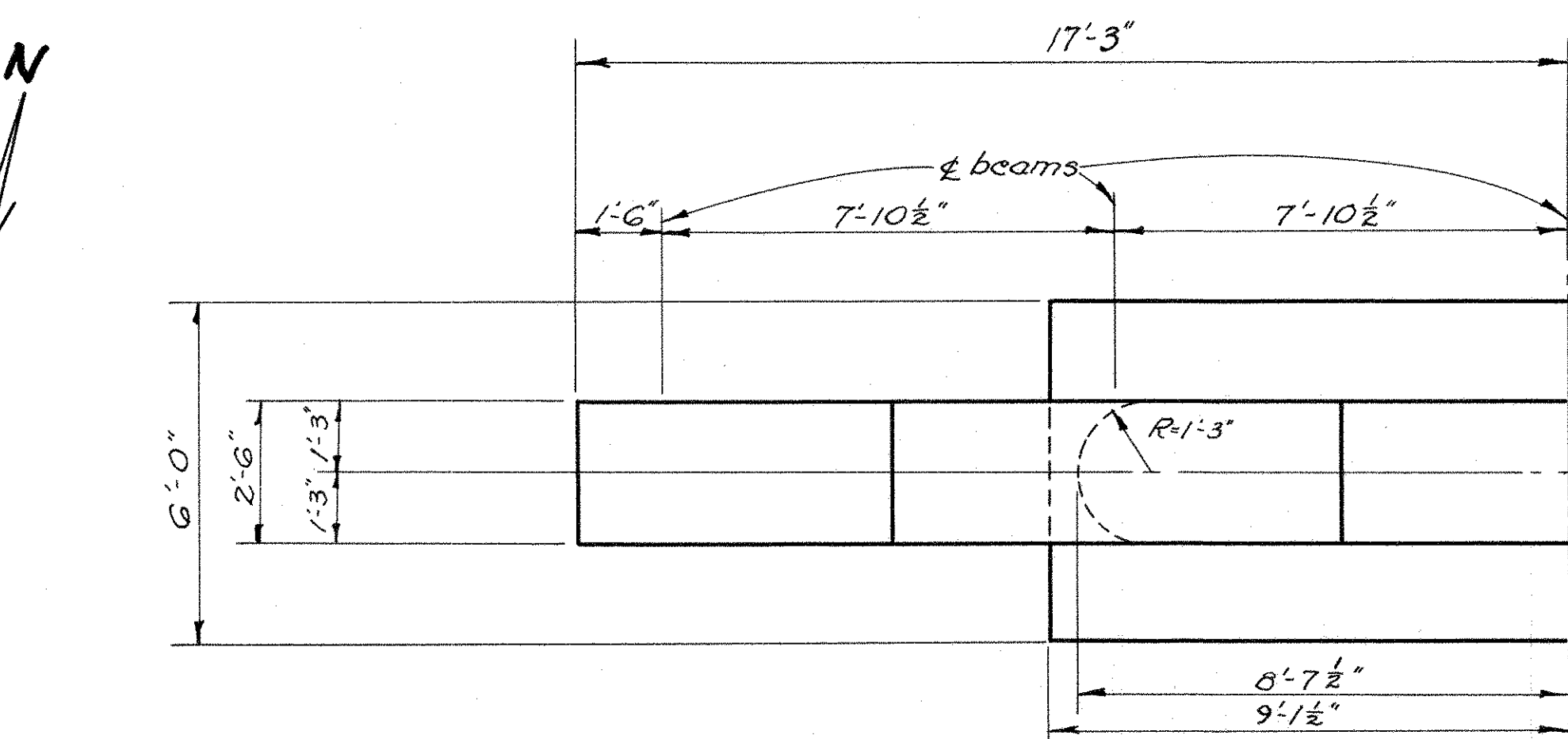
GENERAL PLAN



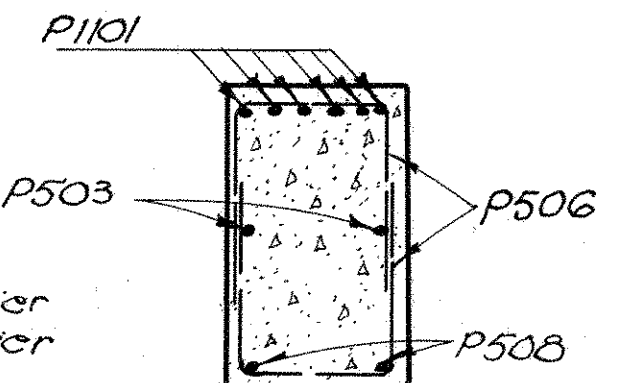
ELEVATION

ESTIMATED QUANTITIES

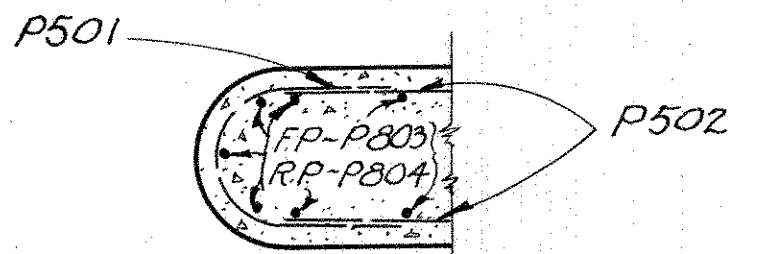
Item	Total	Unit	Description	Super.	Abuts.	Piers	General		
E-2	Lump	Sum	Cofferdams, cribs & sheeting				Lump		
E-2	250	Cu. Yd.	Unclassified excavation, including rock		110	140			
E-3	18,997	Cu. Yd.	Channel excavation				18,997		
S-1	168	Cu. Yd.	Class "C" concrete, superstructure	168					
S-1	92	Cu. Yd.	Class "C" concrete, piers above footings			92			
S-1	24	Cu. Yd.	Class "E" concrete, pier footings			24			
S-1	92	Cu. Yd.	Class "E" concrete, abutments		92				
S-4	62,811	Lb.	Reinforcing steel	+5,577	5,549	11,685			
S-7	162,400	Lb.	Structural steel	162,400					
S-8	162,400	Lb.	Field painting of structural steel (as per plan)	162,400					
S-14	373	Lin. ft.	Railing (Type I-15.13 with galvanized steel posts and bolts)	373					
S-16	Lump	Sum	First test pile				Lump		
S-18	500	Lin. ft.	Steel piles, 12BP53		500				
S-24	Lump	Sum	Removal of existing structure				Lump		
S-29	25	Cu. Yd.	Parous backfill		25				
I-10	328	Sq. Yd.	Crushed aggregate slope protection				328		



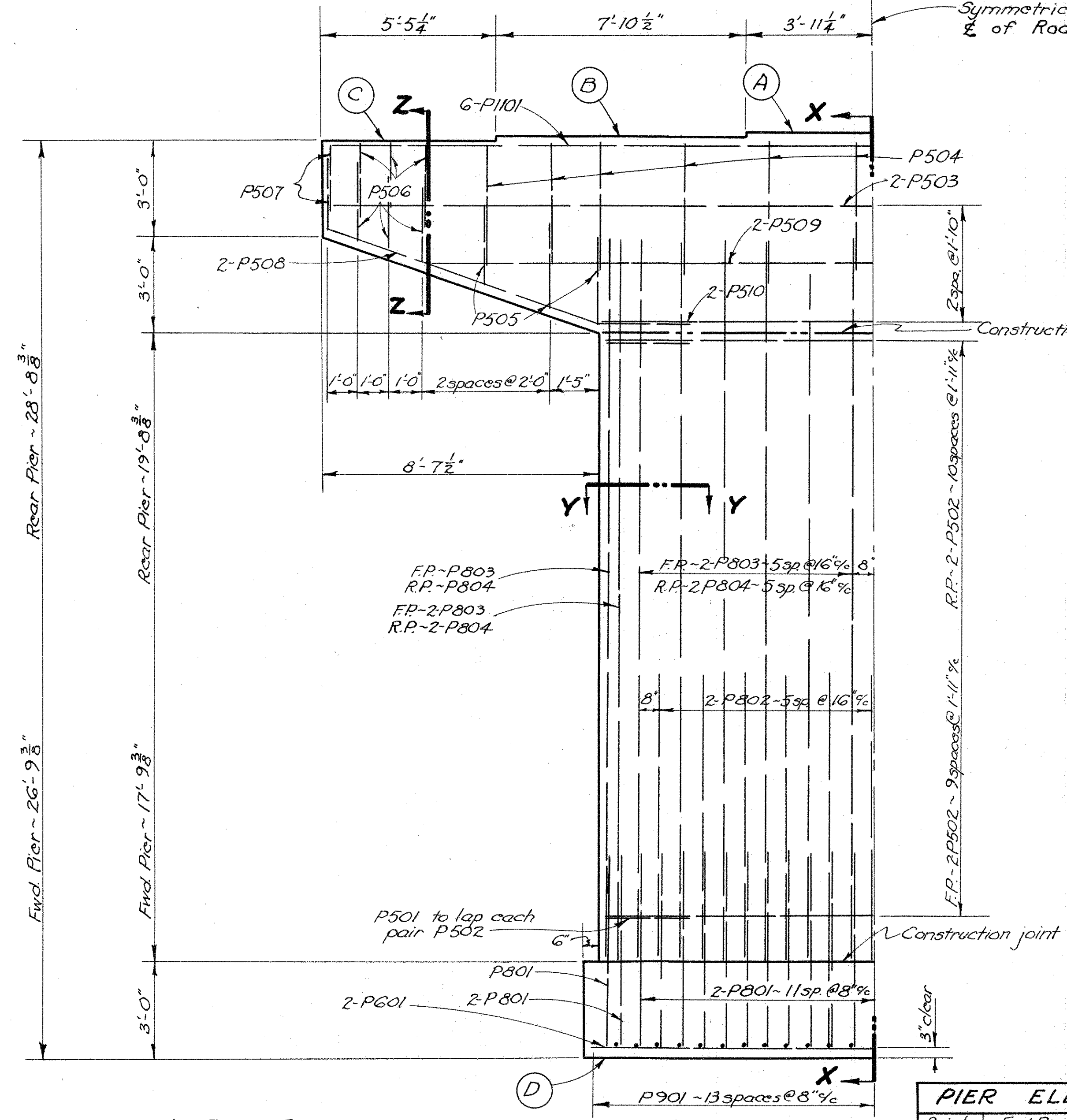
HALF-PLAN



SECTION Z-Z

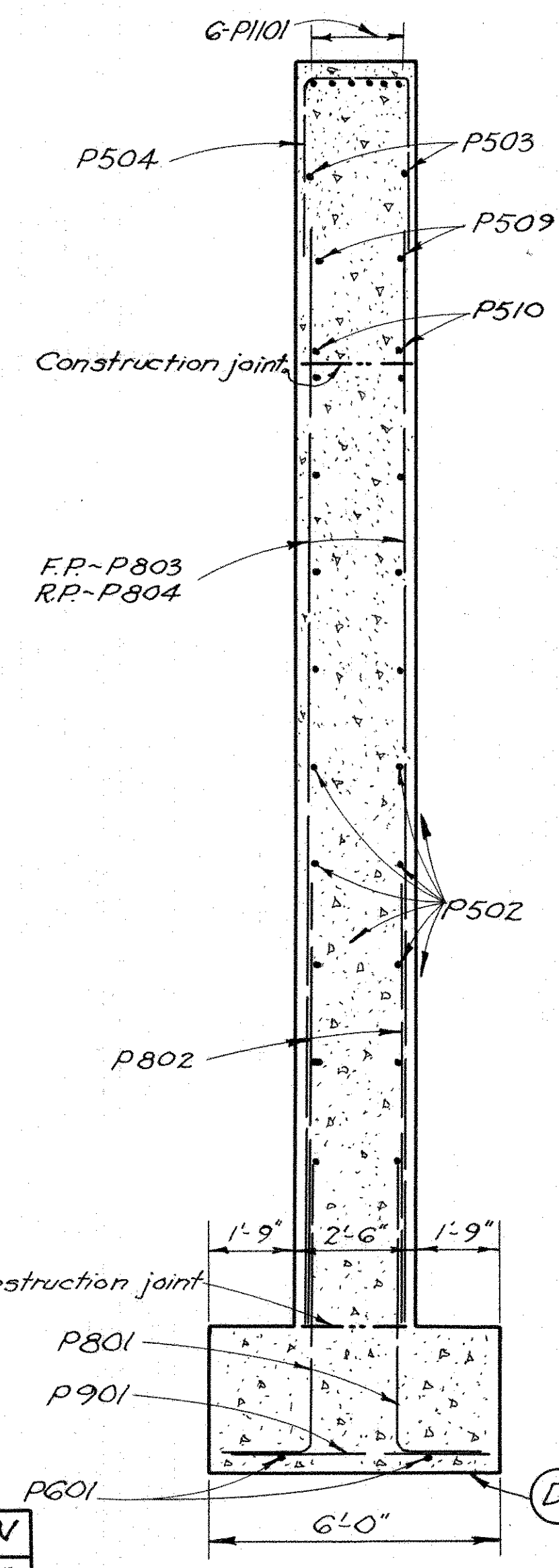


SECTION Y-Y



HALF-ELEVATION

PIER ELEVATION		
Point	Fwd. Pier	Rear Pier
A	823.03	822.95
B	822.90	822.82
C	822.78	822.70
D	796.00	794.00



SECTION X-X

REINFORCING STEEL LIST				
Mark	No.	Length	Weight	Shp.
Superstructure				
S601	314	35'-8"	16821	S
S602	265	38'-3"	15225	S
S603	44	28'-0"	1850	S
S501	314	35'-8"	11681	S
Abutments				
R801	24	34'-2"	2189	S
R601	20	14'-8"	441	B
R602	22	4'-8"	154	S
R603	20	13'-1"	393	B
R501	40	8'-6"	355	B
R502	48	11'-7"	580	B
R503	48	9'-9"	488	B
R504	4	12'-5"	52	S
R505	24	8'-1"	202	S
R506	18	23'-5"	440	S
R507	32	7'-1"	236	S
R508	4	4'-6"	19	S
Piers				
P1101	12	36'-6"	2327	B
P901	54	5'-8"	1040	S
P801	104	6'-1"	1689	B
P802	44	9'-0"	1057	S
P803	30	21'-1"	1689	S
P804	30	23'-0"	1842	S
P601	4	17'-11"	108	S
P501	42	6'-4"	277	B
P502	42	14'-9"	646	S
P503	4	34'-2"	143	S
P504	24	10'-5"	261	B
P505	12	7'-9"	97	B
P506	24	7'-3"	181	B
P507	8	6'-3"	52	B
P508	8	10'-6"	88	B
P509	4	28'-0"	117	S
P510	4	17'-0"	71	S
Replacement Bars				
RE1101	1	7'-6"	-	S
RE901	1	6'-10"	-	S
RE801	1	6'-6"	-	S
RE601	3	5'-11"	-	S
RE501	1	5'-7"	-	S

REPLACEMENT BARS: If reinforcing bars are fabricated from stock which previously has been tested and approved by the Ohio Highway Testing Laboratory, test samples as provided in Sec. 3-4.02 need not be furnished and replacement bars will not be required.

NOTE: Special care shall be taken in placing reinforcing steel in the bridge seat so that the reinforcing steel will not interfere with the drilling of anchor bolt holes.

STATE OF OHIO DEPARTMENT OF HIGHWAYS DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES				
PIER DETAILS & REINFORCING STEEL LIST				
BRIDGE NO. AUG-197-0512 over St. Marys River				
AUGLAIZE COUNTY Sta. 269+31.75				
271+18.25				
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED
MM	MM	R.S.	M.R.G.	BFG
DATE 3-3-60				

