

MICROFILMED  
MAY 21 1987

No PID  
C No. 580079

STATE OF OHIO  
DEPARTMENT OF HIGHWAYS

ACI-1105(31)

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-1105(31)	1 394

ASHLAND COUNTY  
ASD -1-3.52

LIMITED ACCESS

This improvement is especially designed for through traffic and has been declared a limited access highway or freeway by action of the Director of Highways in accordance with the provisions of Section 5511.02 of the Revised Code of Ohio.

Federal Project No. I-1105(31) appearing throughout these plans shall be considered to read ACI-1105(31)

CONVENTIONAL SIGNS

State Line	-----
County Line	-----
Township Line	-----
Section Line	-----
Center Line	-----
Corporation Line	-----
Fence Line	-----
Guard Rail (Existing)	-----
Guard Rail (Proposed)	-----
Steam Railroad	-----
Power Poles	-----
Telephone Poles	-----
Trees (Existing)	-----

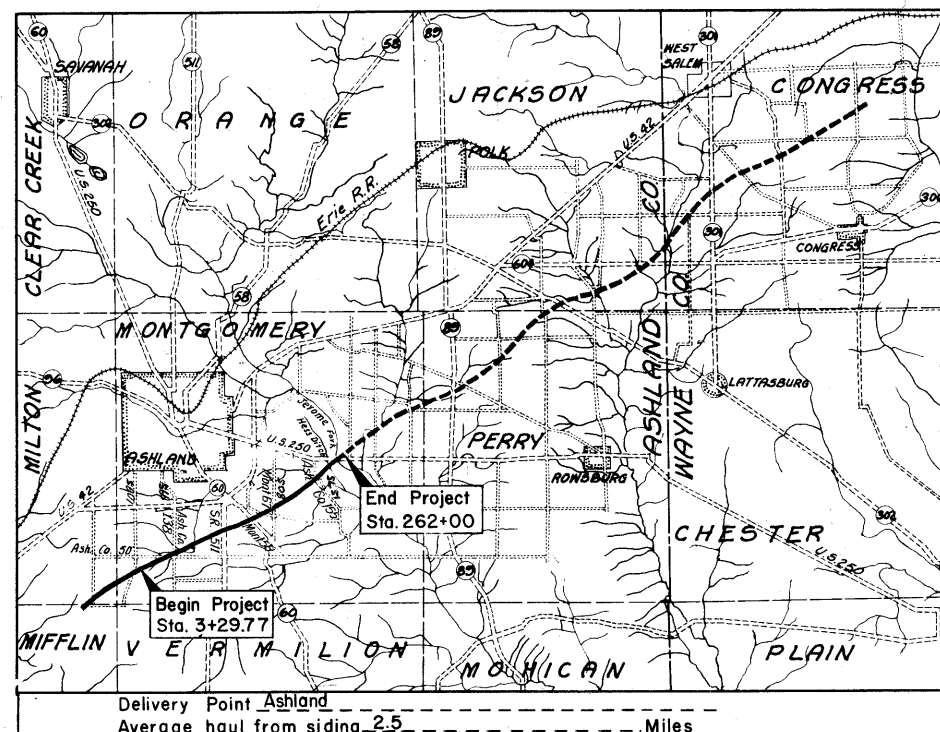
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Force Account Work (Utility)	374-377 Incl., 388-391 Incl.

LINE DATA

Begin Project	Sta. 3+29.77	
End Project	Sta. 262+00	
Gross Length of Project	25870.23	Lin. Ft.
Add for Equation	113.91	Lin. Ft.
Net Length of Project	25984.14	Lin. Ft. or 4921 Miles
Begin Work	Sta. 2+82	Lin. Ft.
End Work	Sta. 262+35	Lin. Ft.
Gross Length of Work	25953.00	Lin. Ft.
Add for Equation	113.91	Lin. Ft.
Net Length of Work	26066.91	Lin. Ft. or 4937 Miles
Add for Approaches (See Sheet No. 12)	18,562.42	Lin. Ft.
Total Length of Work	44,629.33	Lin. Ft. or 8,453 Miles

Approved H. E. Eckhardt  
Date 4/1/58 Engineer of Traffic



LOCATION MAP

SCALE OF MILES



Portion to be improved  
Portion Under Separate Contract  
State Roads  
Other Roads

SCALE

Plan ----- 1" = 100'  
Profile: Horizontal ----- 1" = 100'  
Profile: Vertical ----- 1" = 10'

Supplemental Prints of Standard Construction Drawings					
BT-50-70-71E NO. 1	IO-1-47	I-8 I NO. 2	12-1-54	L-3-A	4-1-50 AS-1-54
BT-71R	3-2-53	I-8 M.H. NO. 1	5-1-52	LJ NO. 1	7-1-55 CSB-2-56 Sheet 2
DR-1	1-3-55	I-12	7-1-54	RI-1	1-3-55 CSB-2-56 Sheet 3
F-1	4-1-57	I-14 G	1-22-52	HW-A&B	7-15-57 RB. 1-55
G-707	6-1-56	I-15 NO. 1	8-1-55	HW-C	7-15-57 AR 1-57
I-1,2,3,4,8,5	2-20-45	I-15 NO. 2A	6-1-57	S-27 PC. 2	3-15-48 SP-53
I-8 C.B. 2-2-A&B	8-1-56	I-15 NO. 2B	6-1-57	S-27 PC. 4	1-4-54 I-8 C.B. NO. 7
I-8 C.B. NO. 4	6-1-57	I-21-23	8-1-56	S-27 PC. 3	2-20-45 I-15 NO. 5
I-8 C.B. NO. 5	6-1-57	L-1	4-1-50	T-35	1-2-56 I-15 NO. 6
I-8 C.B. NO. 6	5-1-52	L-3	4-1-30	TJ	5-1-56 I-8 M.H. NO. 1A

Supplemental Specifications	
E-101	1-1-57
B-119	REV. 8-11-57
5	6-8-55
18	REV. 2-6-57
S-114	REV. 8-1-57
I-127	REV. 11-16-57
M-206.6(b)	5-25-56
I-125	REV. 11-6-57
M-206.14	7-15-49

DEPARTMENT OF COMMERCE  
BUREAU OF PUBLIC ROADS

APPROVED

DIVISION ENGINEER

DATE

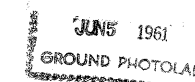
Approved R. J. Schuman  
Date 4-2-58 Chief Engineer, Interstate Projects

Approved P. H. Mahoney  
Date 4-10-58 Deputy Director, Planning & Programming

Approved P. E. MacArthur  
Date 4/17/58 Deputy Director, Design & Construction

Approved \_\_\_\_\_  
Date \_\_\_\_\_ First Assistant Director

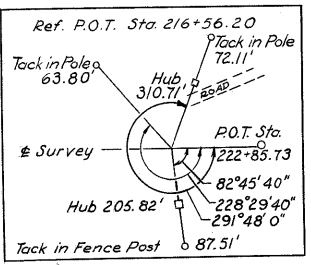
Approved George J. D'Amico  
Date 4/10/58 Acting Director of Highways



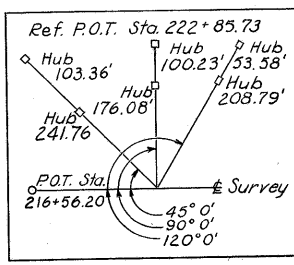
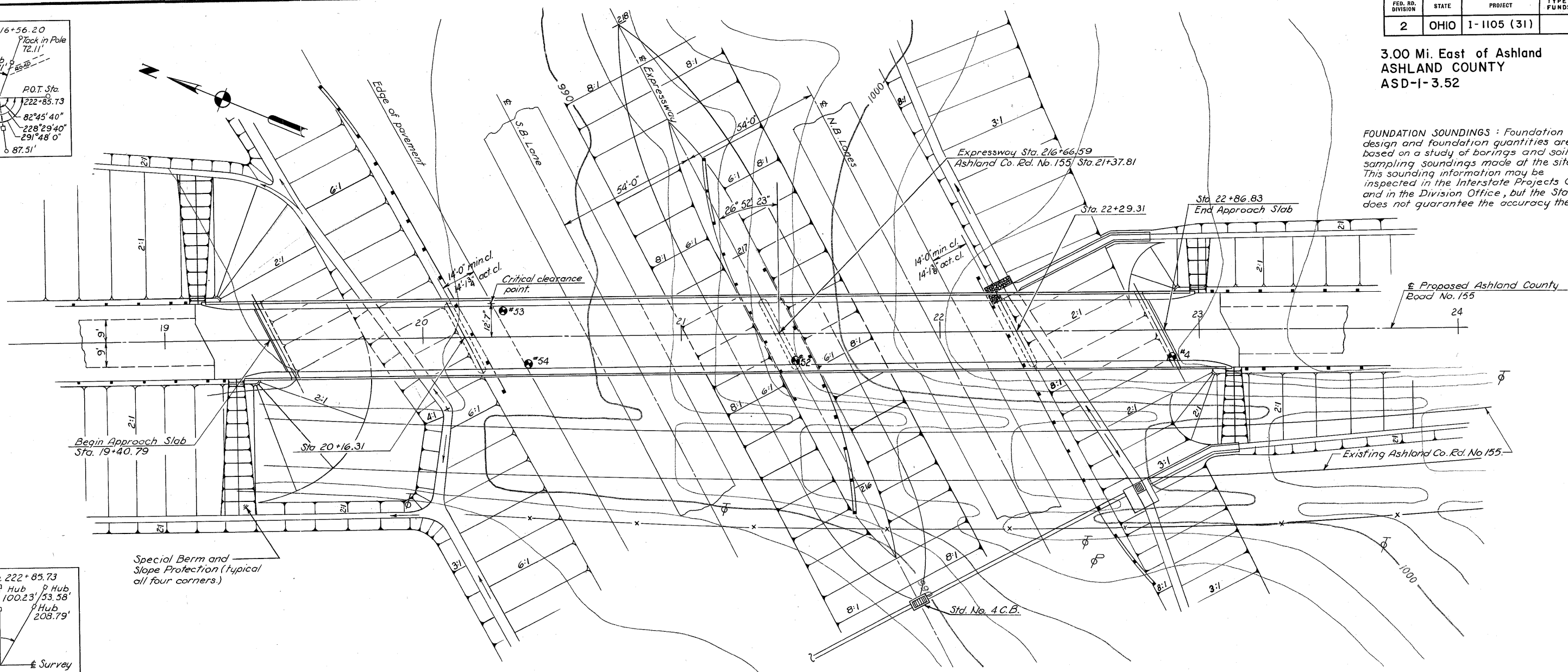
File No. <u>44-700</u>	ASHLAND COUNTY	ASD-1-3.52
Date of Letting	19	
Contract No.		

**3.00 Mi. East of Ashland  
ASHLAND COUNTY  
ASD-1-3.52**

FOUNDATION SOUNDINGS : Foundation design and foundation quantities are based on a study of borings and soil sampling soundings made at the site. This sounding information may be inspected in the Interstate Projects Office and in the Division Office, but the State does not guarantee the accuracy thereof.

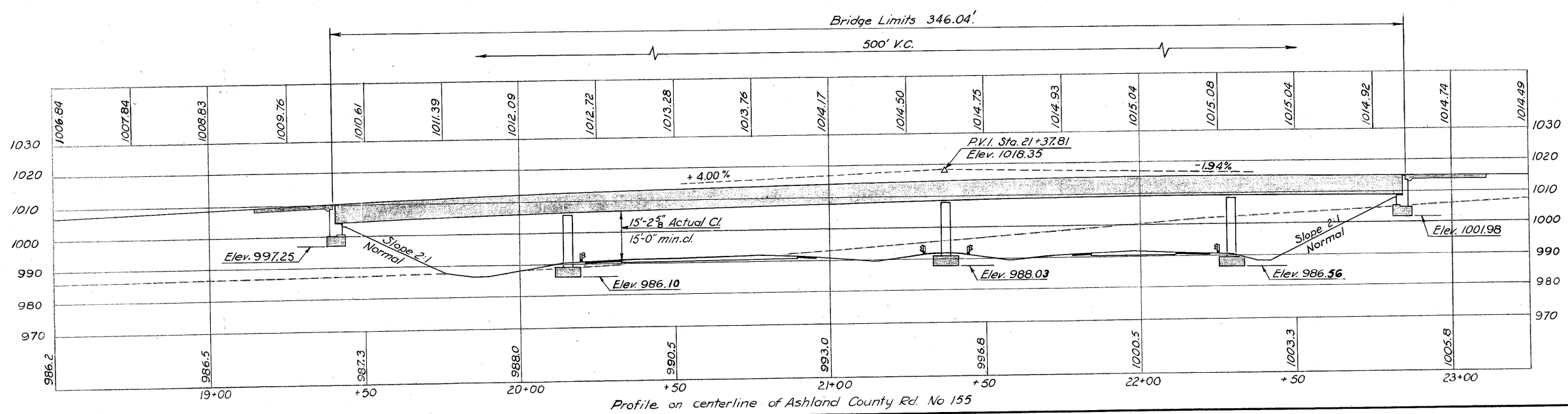


MICROFILMED  
MAY 26 1987



Bench Mark  
Log bolt in O.P.S. Co. pole #79 DN  
245' Lt. Sta. 218+00  
Elev. 985.46

Denotes boring location  
Ashland County Rd. No. 155 A.D.T. 280 (1975)



Preliminary Design 2-20-58

**PROPOSED STRUCTURE**  
TYPE : Continuous steel girder with reinforced concrete deck and substructure.  
SPANS : 73'-0", 121'-6", 91'-6", 55'-0" 9/16 bearings.  
ROADWAY : 24'-0" 1/2, 2'-0" safety curbs  
LOAD FREQUENCY : CF = 130 (37)  
WEARING SURFACE : 3/4 mono. concrete.  
APPROACH SLAB : Special Design 25' long.  
SKEW : 26° 52' 23" R.F.  
ALIGNMENT : Tan.  
SUPERELEVATION : None.

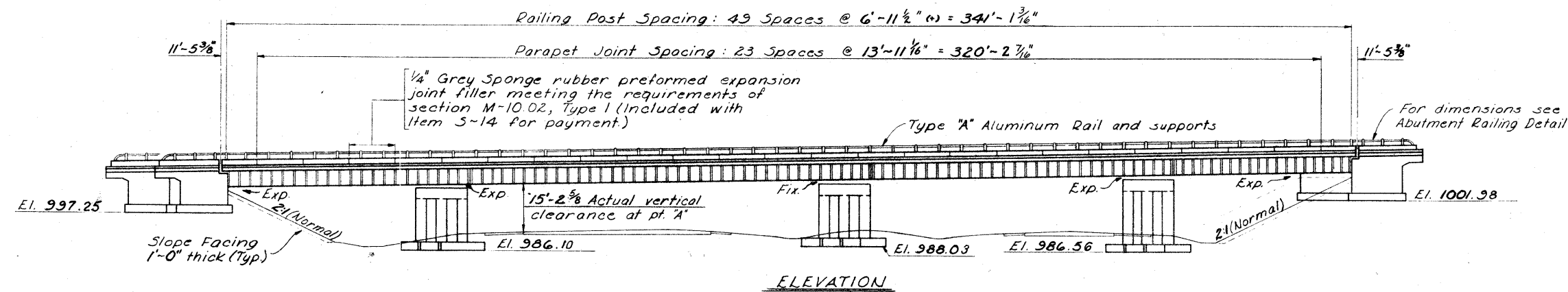
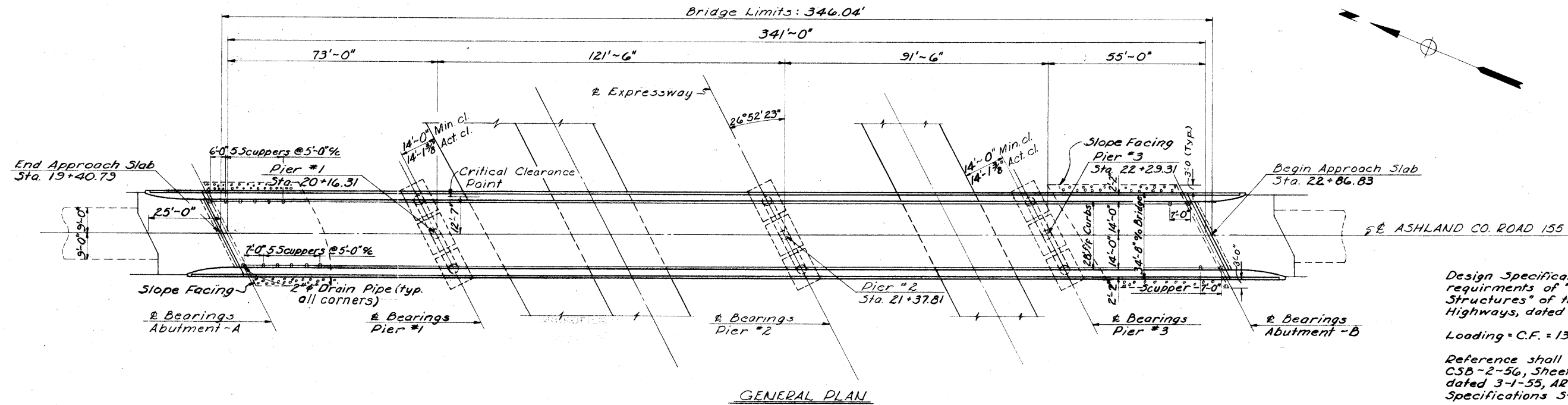
MICHAEL BAKER, JR., CONSULTING ENGINEERS  
ROCHESTER, PENNSYLVANIA

**SITE PLAN**  
BRIDGE NO. ASD-1-0755  
UNDER ASHLAND CO. RD. NO. 155  
ASHLAND COUNTY

SCALE 1"=20' STA. 216+66.59

PRESENT	TOPOGRAPHY	PROPOSED	WORK
Surveyed	Drawn	Designed	Checked
		J.M.	C.W.S.
			A.S.J.
			E.F.R.

ASHLAND COUNTY  
ASD-1-3.52



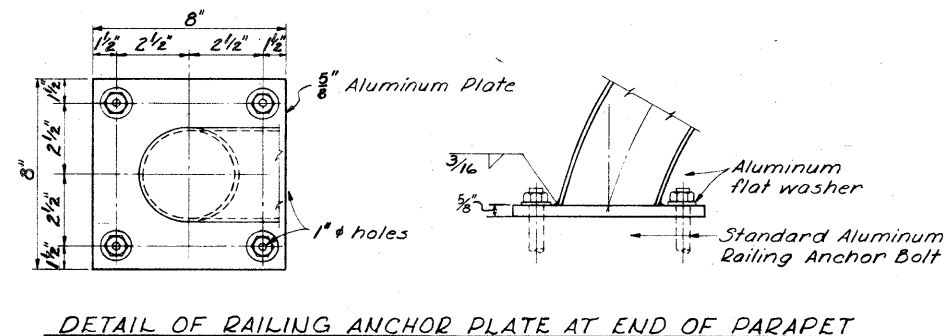
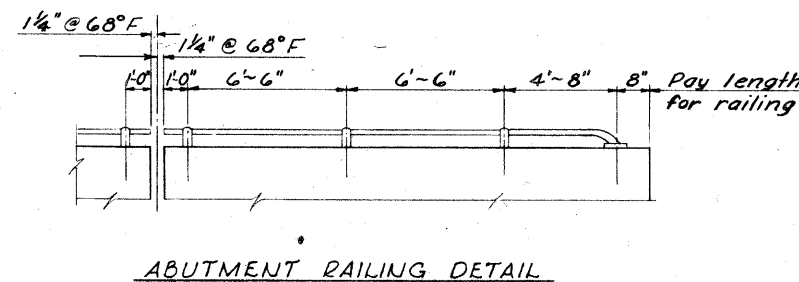
+4.00% -1.34%

P.V.I. Sta. 21+37.81

El. 1018.35

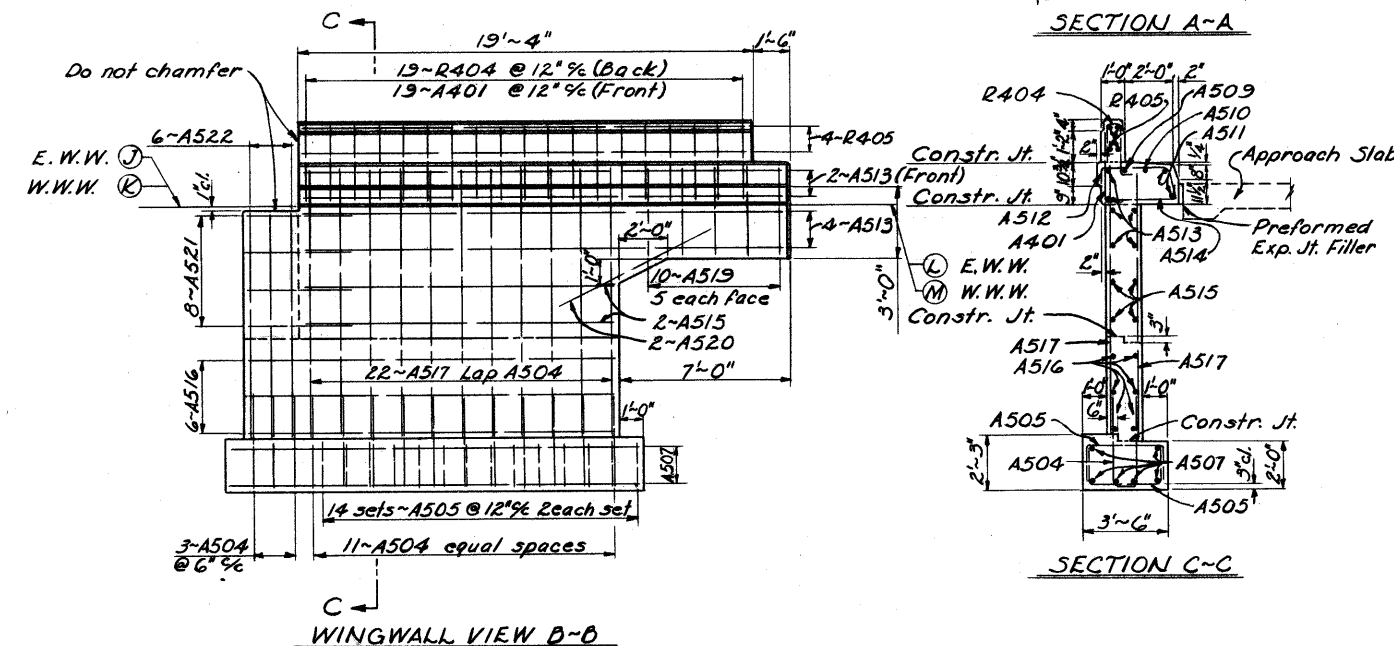
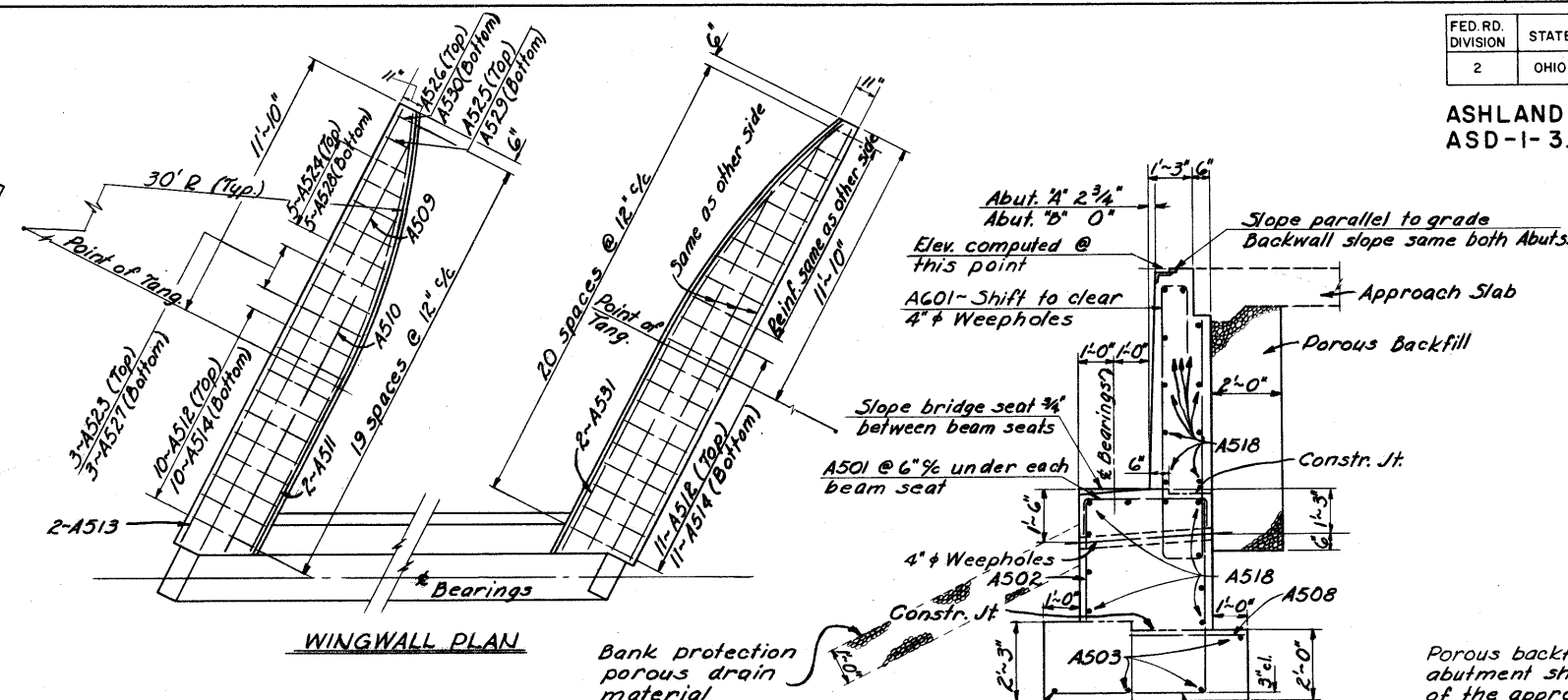
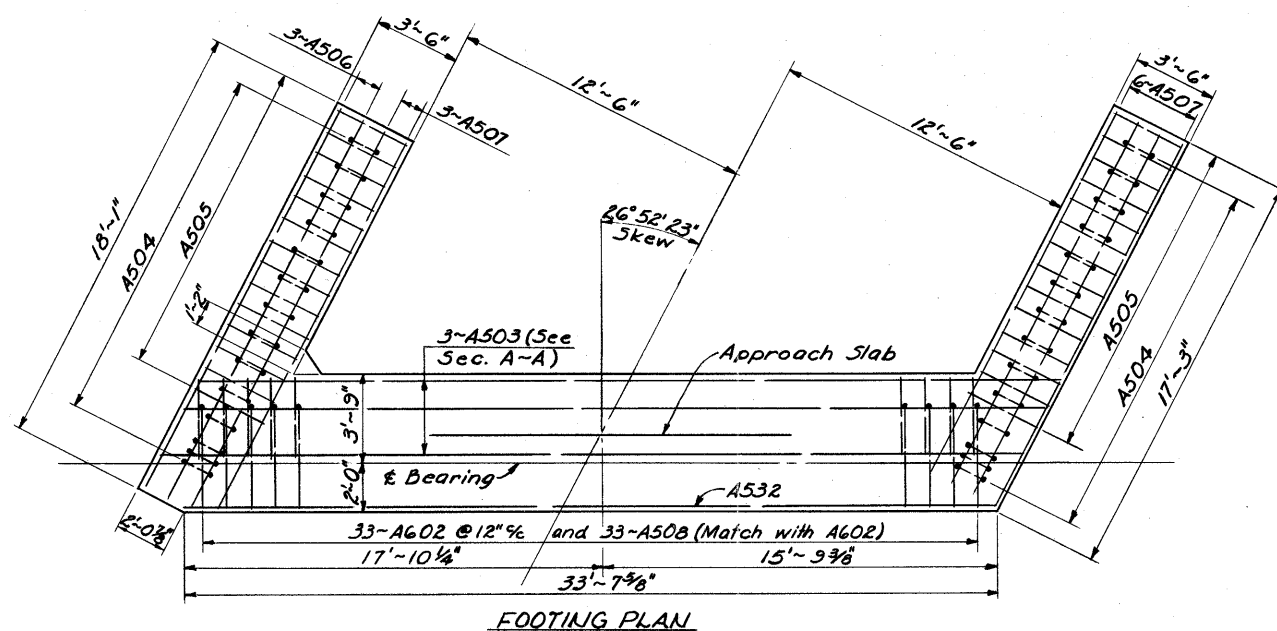
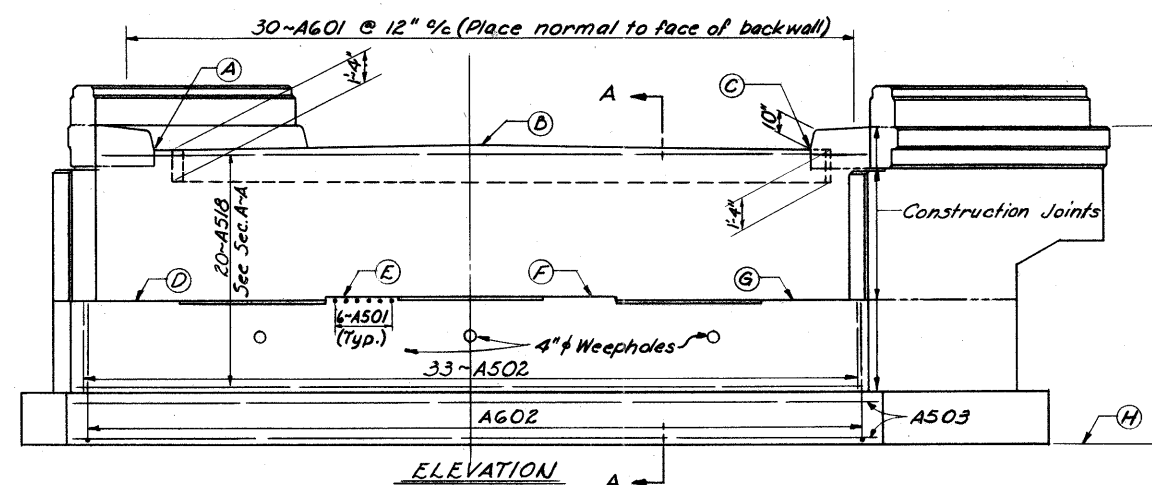
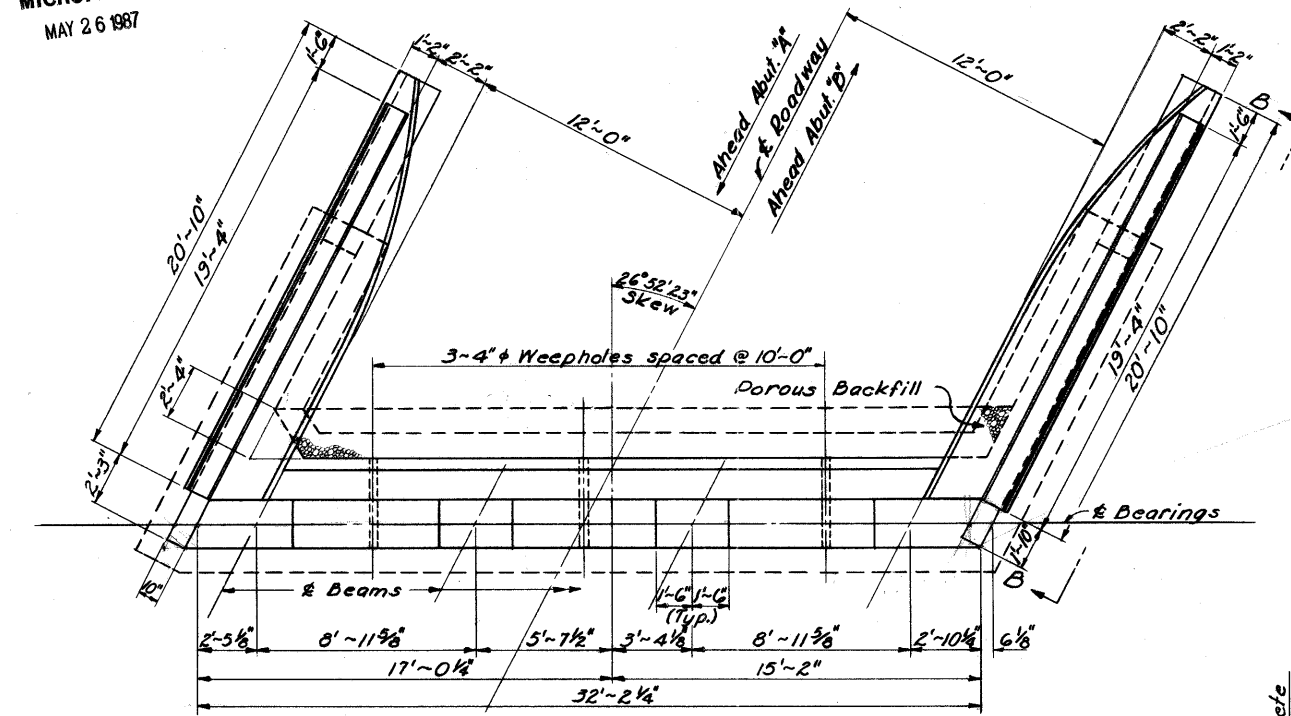
V.C. 500'

CURVE DATA



MICHAEL BAKER JR., CONSULTING ENGINEERS ROCHESTER, PENNSYLVANIA					
GENERAL PLAN & ELEVATION BRIDGE N° ASD-1-0755 UNDER ASHLAND CO. RD. NO. 155					
ASHLAND COUNTY			STA. 216+66.59		
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVIEWED
A.S.J.			F.A.	E.F.R. 4-2-58	





NOTES

*Porous backfill 2 feet thick full length of abutment shall extend up to the underside of the approach slab.*

Clearance of reinforcing steel from face of concrete shall be 2" unless otherwise shown.

Concrete above bridge seat construction joint shall not be placed until after the steelwork is erected, but before placing the deck slab.

Steel end finish shall be used as a template for the top of the backwall.

All abutment concrete shall be Class "E" except parapet which shall be Class "C".

Guard rail end connection to be included  
with railing for payment.

Design Foundation Pressure is 2.5 Tons per sq ft

Location	A	B	C	D	E	F	G	H	J	K	L	M
Abut. A	1010.36	1010.39	1009.95	1003.66	1003.65	1003.52	1003.25	997.25	1009.12	1009.61	1008.37	1008.8
Abut. B	1014.72	1014.87	1014.63	1008.07	1008.17	1008.14	1007.98	1001.98	1013.92	1013.82	1013.76	1113.6

MICHAEL BAKER, JR., CONSULTING ENGINEERS  
ROCHESTER, PENNSYLVANIA

ABUTMENT DETAILS  
BRIDGE N<sup>o</sup> ASD-1-0755  
UNDER ASHLAND CO. RD. NO.155

ASHLAND COUNTY STA. 216+66.59

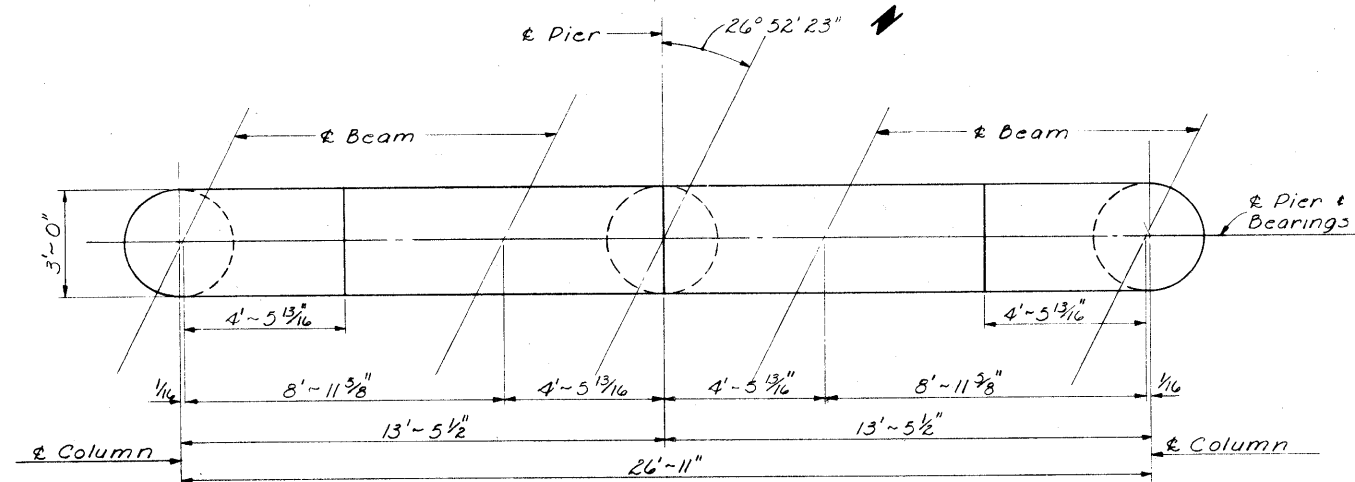
Designed	Drawn	Traced	Checked	Reviewed Date	Revised
A. S. J.	K. E. A.	J. D. D.	F. A.	E. Roberts 4-2-58	

MICROFILMED  
MAY 26 1987

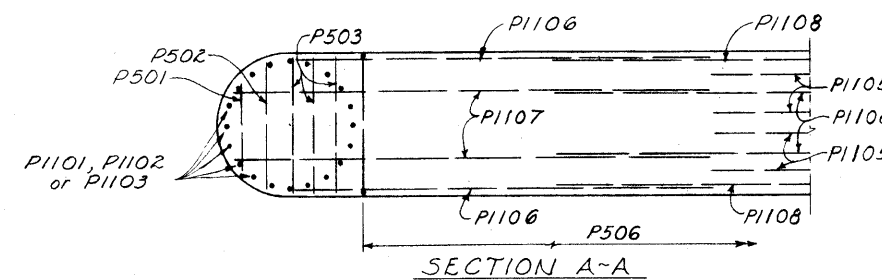
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	I-1105 (31)	

322  
394

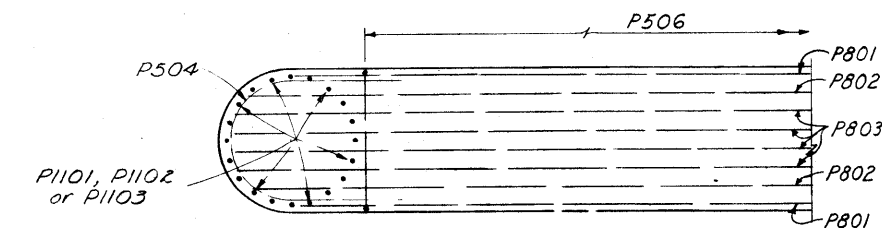
ASHLAND COUNTY  
ASD-1-3.52



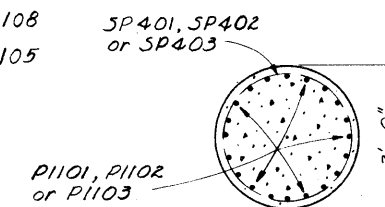
PLAN



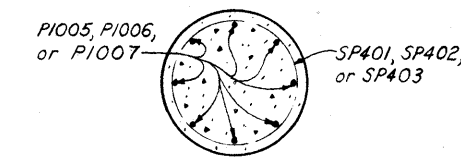
SECTION A-A



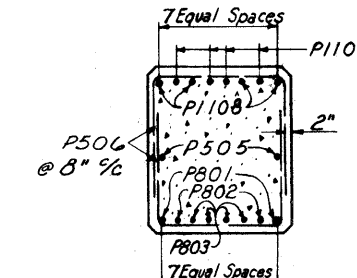
SECTION B-B



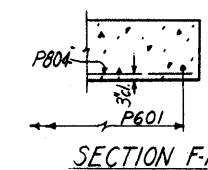
SECTION C-C



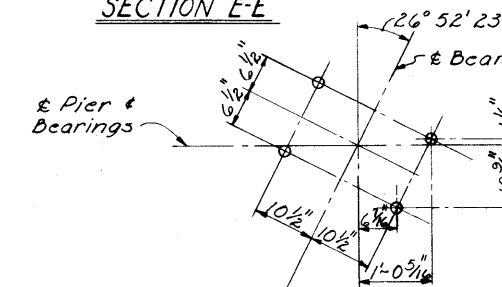
SECTION E-E



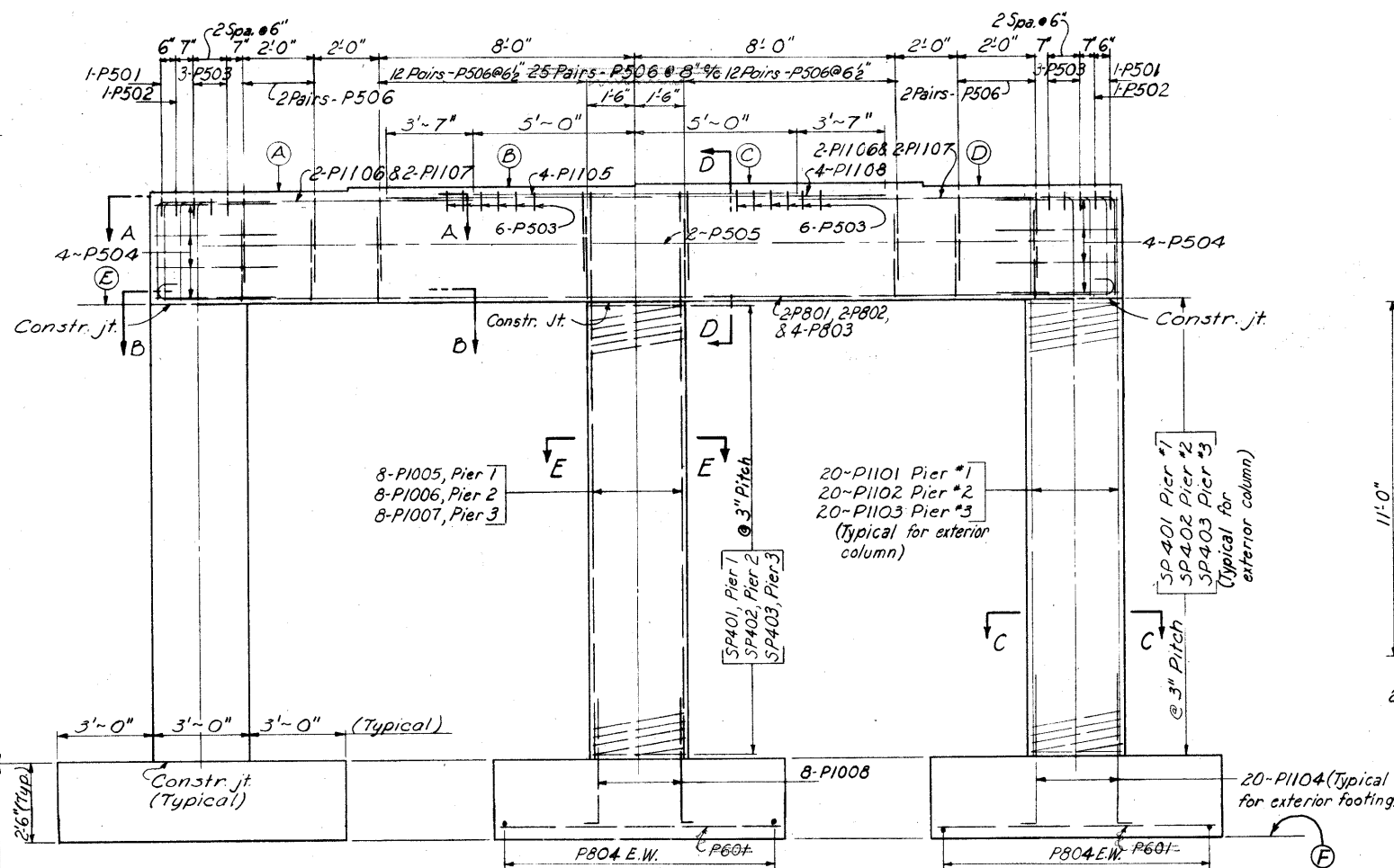
SECTION D-D



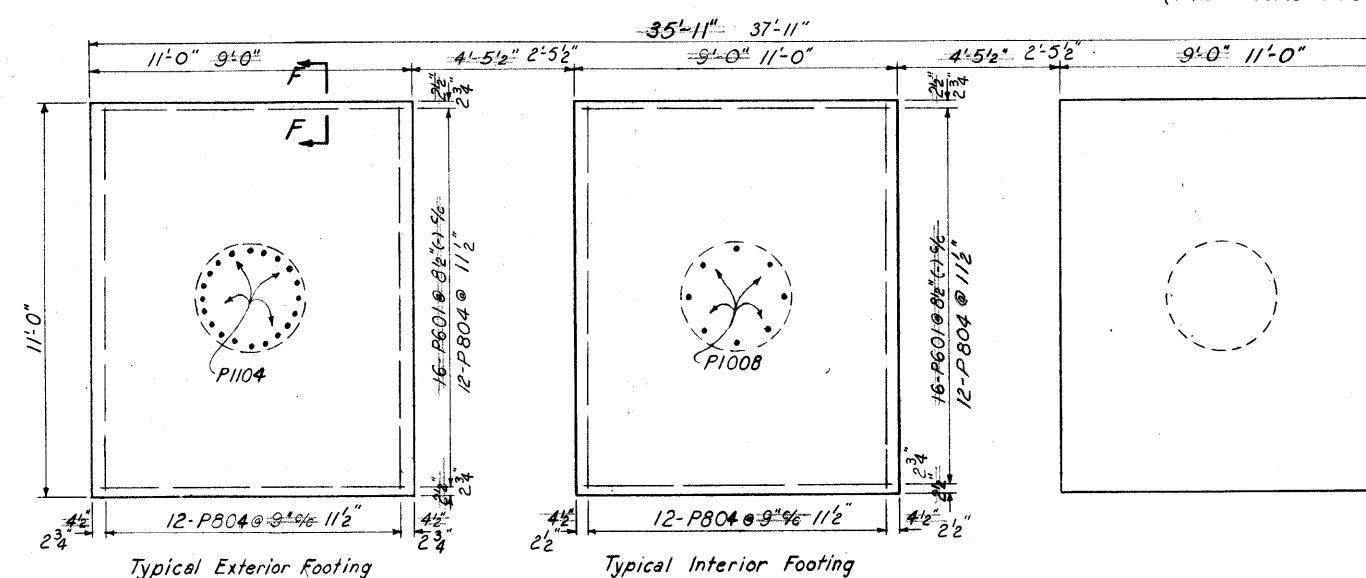
SECTION F-F



ANCHOR BOLT LAYOUT  
(PIER NO. 2 ONLY)



ELEVATION



FOOTING PLAN

TABLE OF ELEVATIONS						
LOCATION	A	B	C	D	E	F
Pier #1	1004.84	1005.07	1005.17	1005.15	1001.34	986.10
Pier #2	1007.03	1007.19	1007.24	1007.15	1003.53	988.03
Pier #3	1007.65	1007.77	1007.77	1007.64	1004.14	986.56

NOTES

- Special care shall be taken in placing reinforcing steel in the bridge seat so that it will not interfere with the drilling of anchor bolt holes.
- Clearance of reinforcing steel shall be 2" from face of concrete unless otherwise shown.
- Design foundation pressure of piers is 2.5 tons per sq. ft.

MICHAEL BAKER, JR., CONSULTING ENGINEERS  
ROCHESTER, PENNSYLVANIA

PIERS  
BRIDGE NO. ASD-1-0755  
UNDER ASHLAND CO. RD. NO. 155  
ASHLAND COUNTY STA. 216+66.59

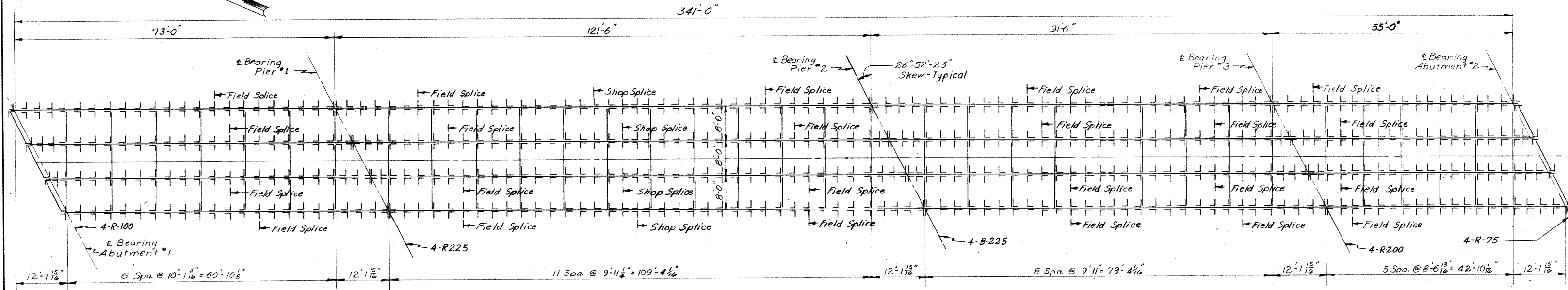
Designed	Drawn	Traced	Checked	Reviewed	Date	Revised
J. M.	K. E. A. H. C. H.		A. S. J.	E. Roberts	4-2-58	5-29-58

MICROFILMED  
MAY 26 1987

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	I-1105 (31)	

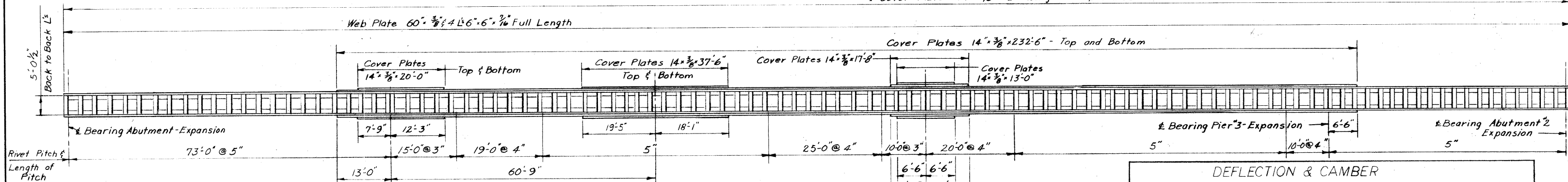
323  
394

ASHLAND COUNTY  
ASD.-I-8.44



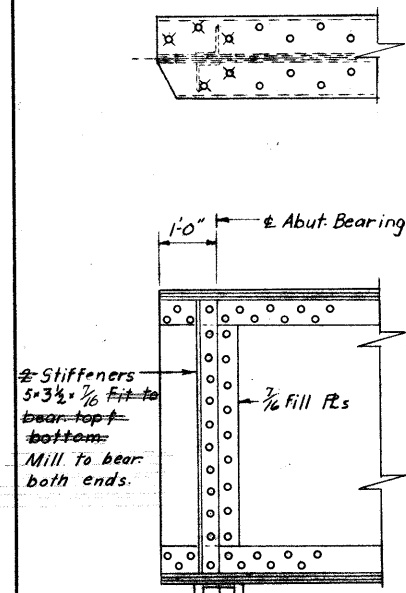
PLAN

1-Cover Plate 14" x 3/8" Full Length - Top and Bottom

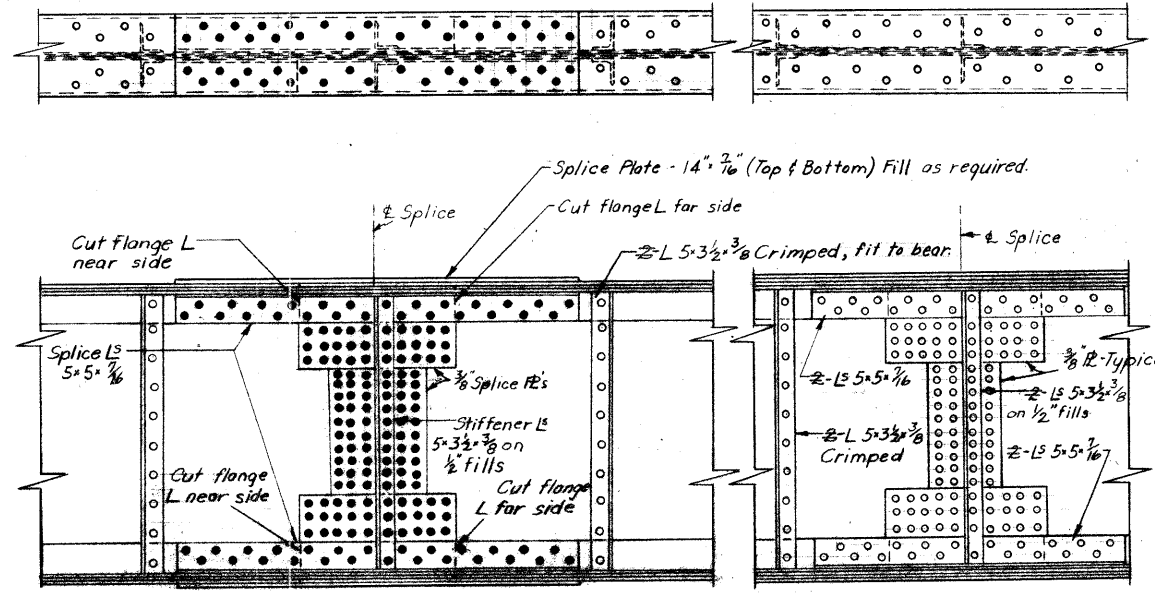


ELEVATION

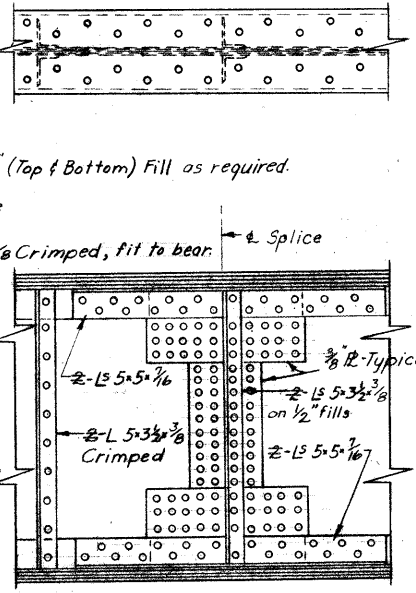
	DEFLECTION & CAMBER						
	Exterior and Interior Girders						
	A	B	C	D	E	F	G
Deflection due to weight of steel	0	1/8	3/8	3/16	0	0	0
Deflection due to remaining dead load	1/16	1/2	1 1/8	5/8	0	1/8	0
Convexity required for vertical curve	1	1 3/8	2 1/4	1 3/8	1 3/8	1 1/8	3/16
Sum of deflection and convexity	1 1/16	2	4 3/16	2 7/16	1 3/8	1 1/4	3/16
Required camber	1 1/16	2	4 3/16	2 7/16	1 3/8	1 1/4	3/16



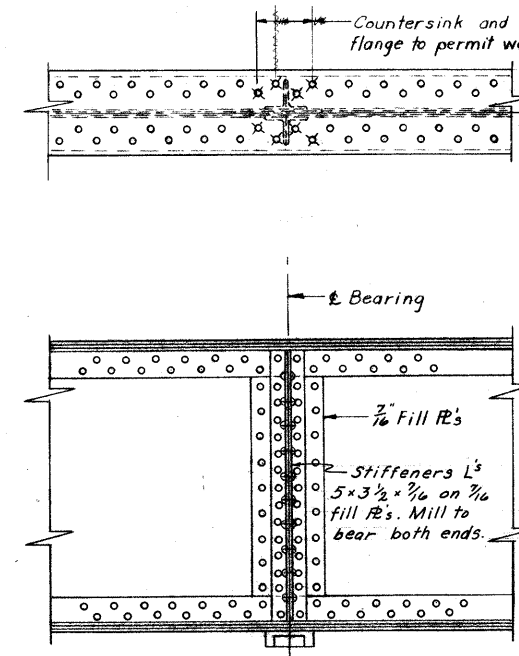
AT ABUTMENT



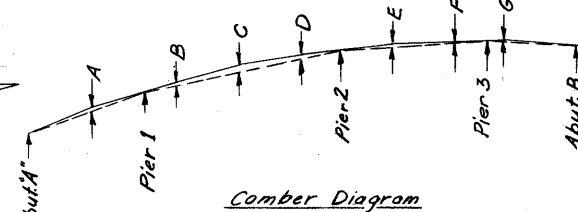
FIELD SPLICE



SHOP WEB SPLICE



AT PIERS



NOTES:

- Abutment and Pier 3 Bearing stiffeners are L's 5 x 3 1/2 x 1/2 on fill plates.
- Pier #1 and #2 Bearing stiffeners are L's 5 x 3 1/2 x 1/2 on fill plates.
- All intermediate stiffeners are L's 5 x 3 1/2 x 1/2 crimped.

(cont)

- All dimensions shown are horizontal.
- All rivets are 3/4"
- All intermediate crossframes are L's 3 1/2 x 3 1/2 x 1/2
- All end crossframes are L's 4 x 4 x 1/2
- All stiffeners shall be normal to girders.

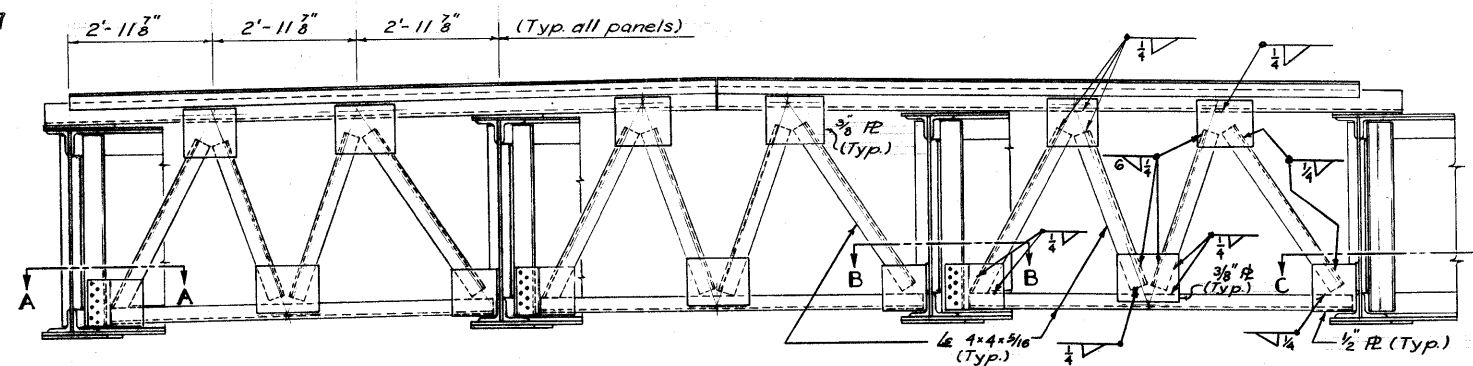
MICHAEL BAKER JR., CONSULTING ENGINEERS  
ROCHESTER, PENNSYLVANIA

STEEL FRAMING  
BRIDGE NO. ASD.-I-0755  
UNDER ASHLAND CO. RD. NO. 155

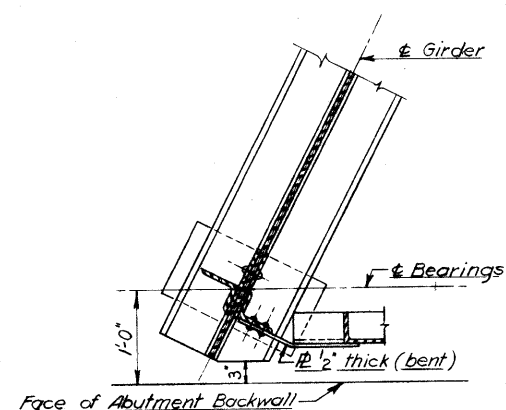
ASHLAND COUNTY STA. 216+66.59

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
A.S.J.	N.R.L.		F.A.	E. Roberts 4-2-58	5-29-58

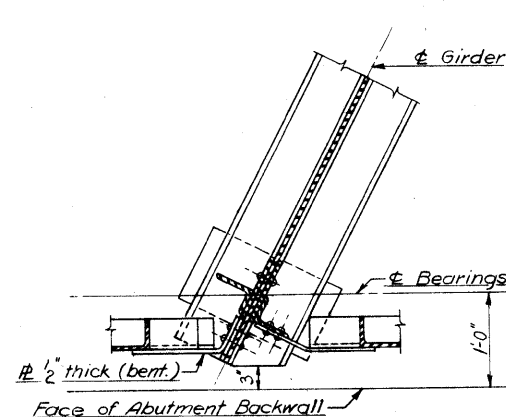
ASHLAND COUNTY  
ASD-1-3.52



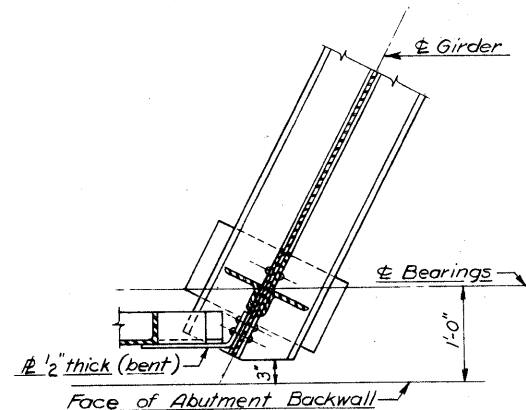
ELEVATION OF END FINISH



SECTION **A-A**

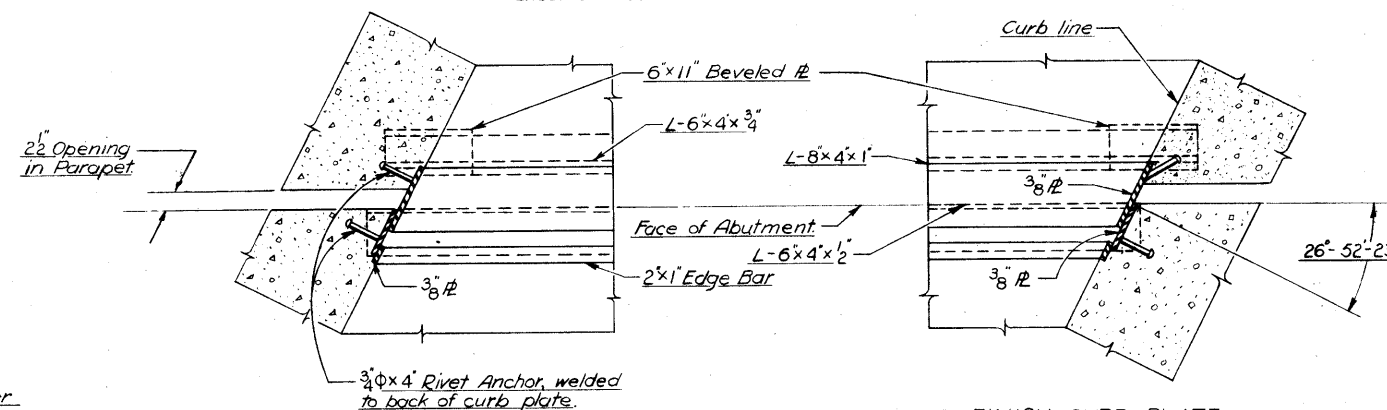


SECTION B-B

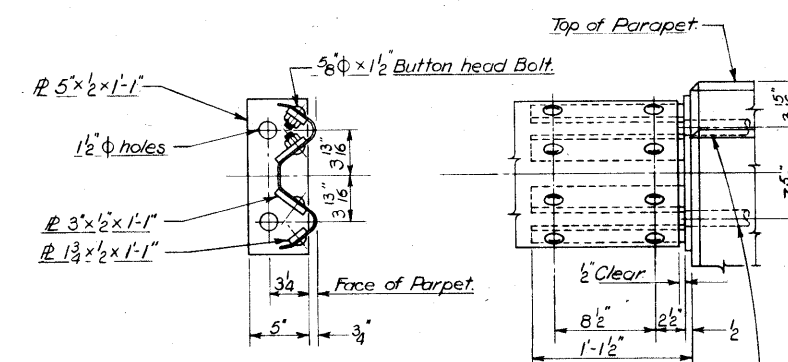


SECTION C-C

NOTE: For details not shown see  
Standard Drawing # CBS-2-56  
sheet 3 of 6.



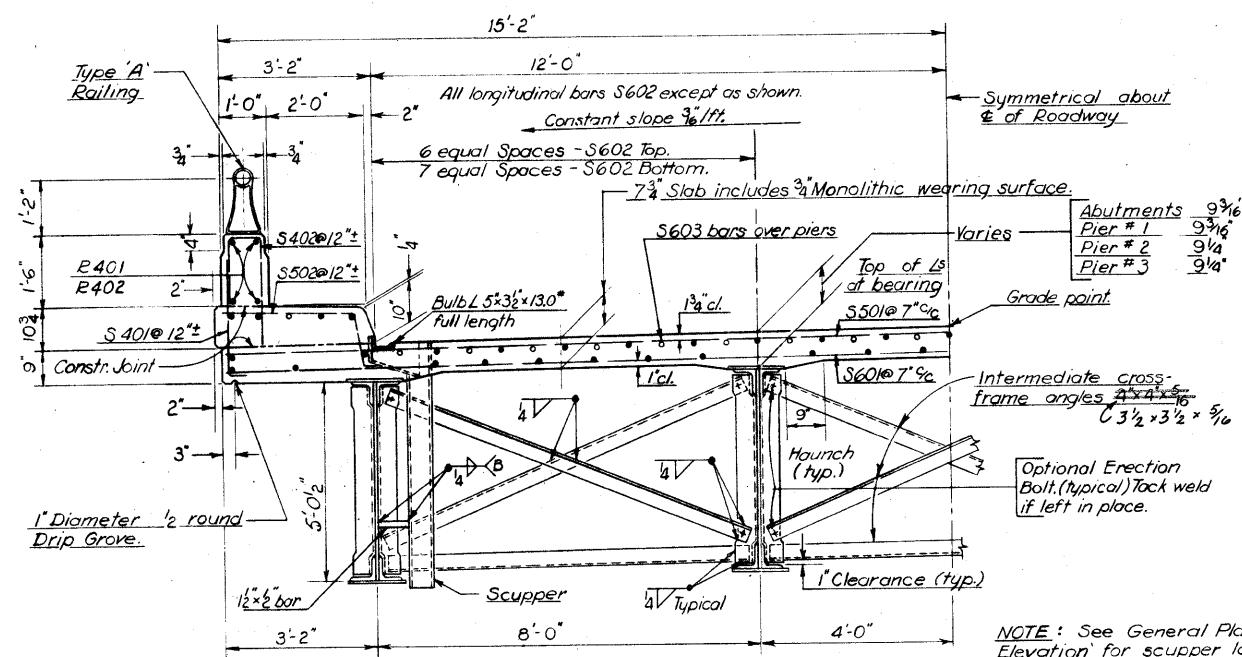
SECTION THROUGH END FINISH CURB PLATE



GUARD RAIL DETAIL

1/4"x20' galvanized machine bolts with square heads and with minimum thread length of 3". Bolts to project 2" from face of concrete.

NOTE: Guard Rail end connection assembly shall be galvanized after welding. Guard Rail end connection to be included in cost of Bridge Railing.



TYPICAL HALF SECTION

NOTE: See General Plan and Elevation for scupper location. See drawing C.S.B.-2-56, sheet 3 of 6 for details.

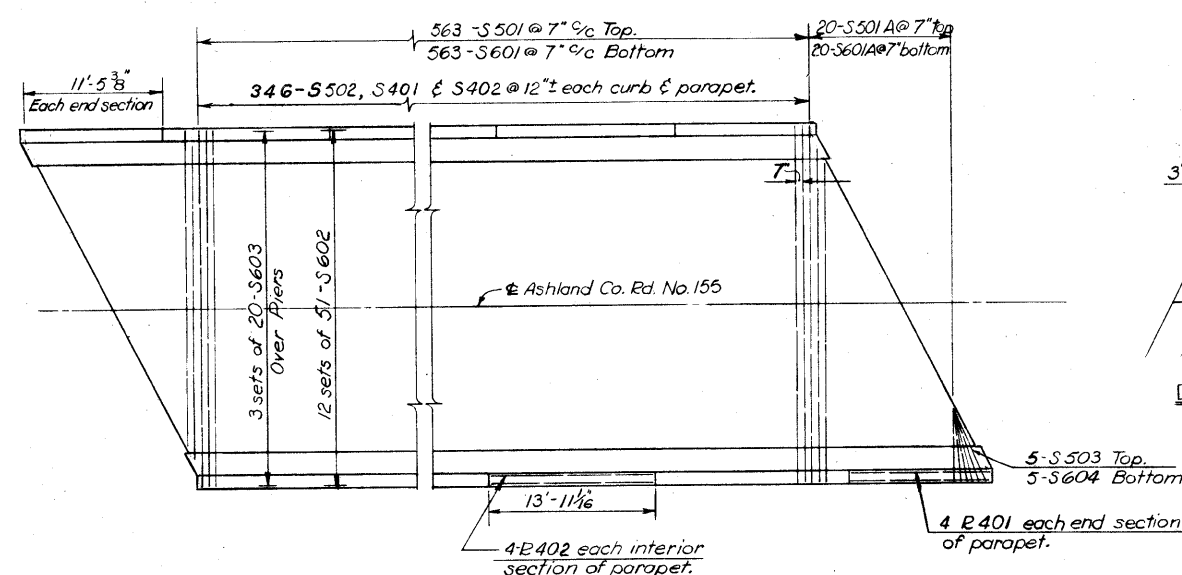
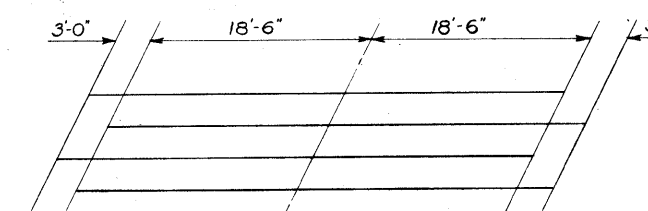


DIAGRAM SHOWING STAGGER OF  
BAR OVER PIERS



**MICHAEL BAKER, JR. CONSULTING ENGINEERS**  
**ROCHESTER, PENNSYLVANIA**

SUPERSTRUCTURE DETAIL  
BRIDGE NO. ASD - I - 0755  
UNDER ASHLAND CO. RD. NO. 155

ASHLAND COUNTY	STA. 216 + 66.59
----------------	------------------

Designed	Drawn	Traced	Checked	Reviewed Date	Revised
A.S.J.	C.W.S.	C.W.S.	F.A.	E. Roberts 4-5-58	5-29-58

ASHLAND COUNTY  
ASD.-I- 3.52

REINFORCING STEEL BAR SCHEDULE											
<div>Bending diagram types</div> <div>All dimensions are out to out except radii which are to inside.</div> <div>Type ① Type ② Type ③ Type ④ Type ⑤ Type ⑥ Type ⑦ Type ⑧ Type ⑨ Type ⑩ Type ⑪ Type ⑫</div> <div>Spiral</div>											
PIERS											
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT	
P501	6	5	2'-1"	6	5"	1'-3"				13	
P502	6	5	3'-2"	6	5"	2'-4"				20	
P503	54 18	5	3'-5 1/2"	6	5"	2'-2"				188 64	
P504	24	5	7'-3 1/2"	9	7 1/2"	2'-7"	4'-1 1/2"			184	
P505	6	5	26'-11"	Str.	1'-10"	2'-4 1/2"	3'-7"			168	
P506	168 174	5	6'-9 7/8"	6	2'-2"	2'-8"				1183 1270	
P601	144	6	8'-8"	Str.						1874	
P801	27'-1'-6	B	26'-11"	8 Str.	1'-1"	26'-11"	9"	1'-1"		466 431	
P802	30'-6'-6	B	28'-4"	8 Str.	1'-1"	28'-4"	9"	1'-1"		489 454	
P803	31'-5'-12	B	29'-3"	8 Str.	1'-1"	29'-3"	9"	1'-1"		1007 934	
P804	216 108	B	10'-8"	Str.						6152 3076	
P1005	8	10	16'-3 1/2"	Str.						562	
P1006	8	10	16'-4 1/2"	Str.						565	
P1007	8	10	18'-5"	Str.						634	
P1008	24	10	6'-6"	1	1'-1"	5'-6"				671	
P1101	40	11	16'-1"	Str.						3418	
P1102	40	11	16'-4"	Str.						3471	
P1103	40	11	18'-5"	Str.	1'-2"	5'-8 1/2"				3914	
P1104	120	11	6'-6 7/8"	1	1'-5"	5'-9"				4144 4569	
P1105	12	11	10'-0"	Str.						638	
P1106	12	11	11'-8 1/2"	1	8'-3 1/2"	3'-3"				749	
P1107	12	11	12'-10 1/2"	1	9'-7 1/2"	3'-3"				824	
P1108	12	11	17'-2"	Str.						1094	
SPiral BARS											
MARK	TOTAL	SIZE	LENGTH	PITCH	No. of Turns	CORE DIA.	WEIGHT				
SP401	3	1/2"	12'-9"	3	54	32	892 352				
SP402	3	1/2"	13'-0"	3	55	32	908 359				
SP403	3	1/2"	15'-1"	3	64	32	1058 447				
Total Weight										30,728	
										31,542	
										33,412	
ABUTMENTS											
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT	
A401	82	4	3'-1"	1	6"	2'-8"				264	
A501	48	5	5'-8"	6	1'-3"	3'-5"				284	
A502	66	5	3'-6"	1		3'-6"				241	
A503	6	5	35'-6"	1		35'-6"				223	
A504	56	5	8'-7"	6	3'-10"	1'-2"				501	
A505	112	5	5'-11"	6	1'-6"	3'-2"				692	
A506	6	5	17'-5"	1		17'-5"				109	
A507	18	5	16'-7"	1		16'-7"				311	
A508	66	5	3'-1"	1		3'-1"				209	
A509	4	5	19'-6"	1		19'-6"				82	
A510	4	5	16'-0"	1		16'-0"				67	
A511	4	5	19'-9"	10	7'-18"	19'-6"	2'-9"		20'-0"	83	
A512	42	5	4'-5"	11	2'-10"		1'-3"			193	
A513	24	5	20'-6"	1		20'-6"				514	
A514	42	5	3'-3"	1	6"	2'-10"				143	
A515	16	5	13'-6"	1		13'-6"				226	
A516	24	5	15'-4"	1		15'-4"				384	
A517	88	5	11'-7"	1		11'-7"				1063	
A518	40	5	31'-0"	1		31'-0"				1294	
A519	40	5	3'-6"	1		3'-6"				146	
A520	8	5	4'-6"	1		4'-6"				38	
A521	32	5	5'-0"	1		5'-0"				167	
A522	24	5	9'-4"	1		9'-4"				234	
A523	12	5	4'-3 1/2"	11	2'-10"	2"	1'-3"		6"	55	
A524	20	5	4'-2 1/2"	11	1'-5 1/2"	2"	1'-3"		6"	77	
A525	4	5	2'-7"	11	1'-0"	2"	1'-3"		6"	11	
A526	4	5	2'-3"	11	8"	2"	1'-3"		6"	10	
A527	12	5	2'-11 1/2"	1	6"	3'-0"				40	
A528	20	5	3'-2 1/2"	1	6"	1'-3"				61	
A529	4	5	1'-7"	1	6"	1'-2"				7	
A530	4	5	1'-2"	1	6"	10"				5	
A531	4	5	21'-10"	10	9'-9"	21'-5"	2'-9"		20'-0"	91	
A601	60	6	18'-1"	7	8'-3"	8"	7'-0"	2'-0"	8"	1130	
A602	66	6	10'-0"	1	4'-5"	5'-9"				689	
R404	82	4	5'-0"	4	2'-8"	8"	1'-8"	6"	Included		
R405	16	4	19'-0"	1		19'-0"			with railing for payment		
Total Weight										9644	
SUPERSTRUCTURE											
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT	
S401	692	4	3'-2"	1	6"	2'-8"				1464	
S402	692	4	3'-11"	4	1'-3"	6"	2'-2"			1118	
S501A	40	5	27'-11 1/2"	Str.	2 eq. Varies by 1'-1 1/2" inc.					710	
S501	563	5	30'-0"	Str.						17616	
S502	692	5	4'-7"	11	2'-18"	1"	1'-5"		4"	3308	
S503	10	5	6'-0"	Str.						63	
S601A	40	6	27'-11 1/2"	Str.	2 eq. Varies by 1'-1 1/2" inc.					1022	
S601	563	6	30'-0"	Str.						25369	
S602	612	6	30'-6"	Str.						28036	
S603	80	6	40'-0"	Str.						3605	
S604	10	6	6'-0"	Str.						90	
R401	16	4	11'-1"	Str.	Included with railing for payment						
R402	184	4	13'-7"	Str.	Included with railing for payment						
Total Weight										82,401	

SPiral NOTES:

The "length" shown in the steel list for the spiral bars, is the distance from the top of the footing to the bottom of the pier cap.

The "No. of Turns" shown in the steel list for the spiral bars, is the "length" divided by the pitch, plus 3 turns (total number of closed coil) expressed as the nearest whole number.

Spiral reinforcing bars shall not have deformations, but shall in other respects conform to item S-4 1/2 closed coils shall be provided at ends of each spiral unit.

Four steel channel, tee or angle spacers, weighing approximately 0.68 Lbs. per Lin. Ft. of spacers, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of these spacers, based on 0.68 Lbs. per Lin. Ft. will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

125,457

ESTIMATED QUANTITIES											
ITEM	TOTAL	UNIT	DESCRIPTION	SUPERSTR.	ABUTS.	PIERS	GENERAL				
E2	564 535	Cu.Yd.	Unclassified Excavation		360	204 175					
S1	338	Cu.Yd.	Class "C" concrete, Superstructure	338							
S1	68	Cu.Yd.	Class "C" concrete, Pier Caps and Columns			68					
S1	116	Cu.Yd.	Class "E" concrete, Abutments above Footings		116						
S1	151 133	Cu.Yd.	Class "E" concrete, Footings	824017	50	101 83					
S4	122 560	Lbs.	Reinforcing Steel	84,189	9644	30,728	33,412				
S7	418000	Lbs.	Structural Steel	418,000							
S8	418000	Lbs.	Field painting of structural steel	418,000							
S14	762	Lin. Ft.	Railing (Aluminum Rail and Supports and concrete parapet)	687	75						
S29	108	Cu.Yd.	Slope Facing (S-29.05 Type)				108				
S29	26	Cu.Yd.	Porous Backfill		26						

REPLACEMENT BARS						
MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT	
RE1101	1	11	7'-7"	Str.		
RE1001	1	10	7'-2"	Str.		
RE902	0	9	6'-10"	Str.		
RE803	1	8	6'-6"	Str.		
RE704	0	7	6'-3"	Str.		
RE605	3	6	5'-11"	Str.		
RE506	2	5	5'-7"	Str.		
RE407	1	4	5'-3"	Str.		
RE401	1	4	5'-3"	12		

REPLACEMENT BARS:

If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Hwy. Testing Laboratory, test sample as provided in section S-402 need not be furnished and replacement bars will not be required.

BAR SIZE:

Bar size is indicated in the barmark. The first digit where three digits are used and the first two where four are used, indicates the bar size number. For example, A401 is a number 4 bar and A114 is a number 11 size bar.

MICHAEL BAKER JR., CONSULTING ENGINEERS  
ROCHESTER, PENNSYLVANIA

REINFORCING STEEL LIST  
AND ESTIMATED QUANTITIES

BRIDGE NO. ASD - I - 0755 UNDER  
ASHLAND COUNTY RD. NO.155

ASHLAND COUNTY STA.216 66.59					
Designed	Drawn	Traced	Checked	Reviewed Date	Revised
N.R.L.			E.A.	E.Roberts	5-29-58
				4-2-58	7-11-58