

MICROFILMED
APR 11 1986

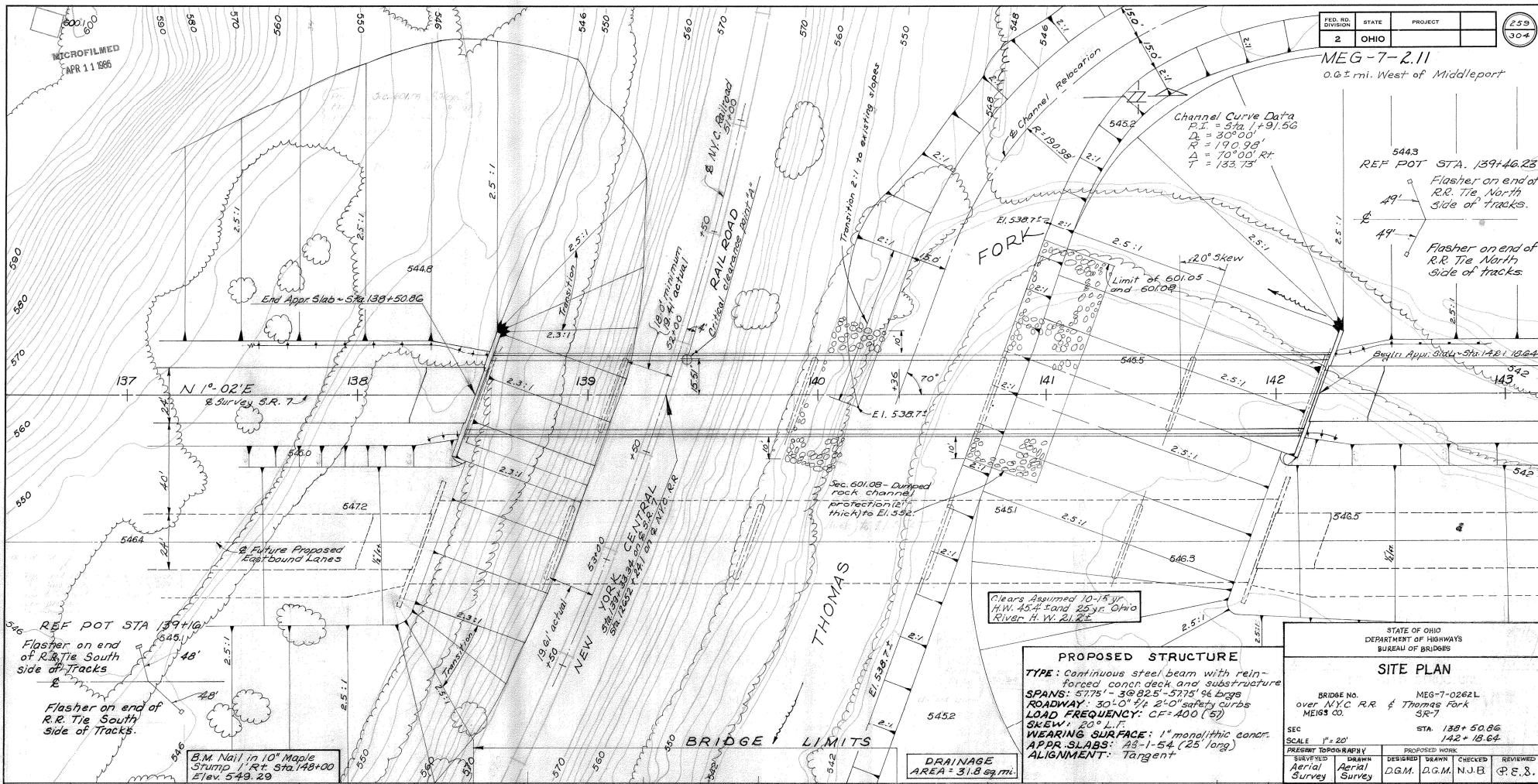
FED. RD. DIVISION	STATE	PROJECT	259 304
2	OHIO		

MEG-7-2.11
0.6± mi. West of Middleport

Channel Curve Data
P.I. = Sta. 139+50.86
D = 30° 00'
R = 190.99'
Δ = 70° 00' Rt.
T = 133.75'

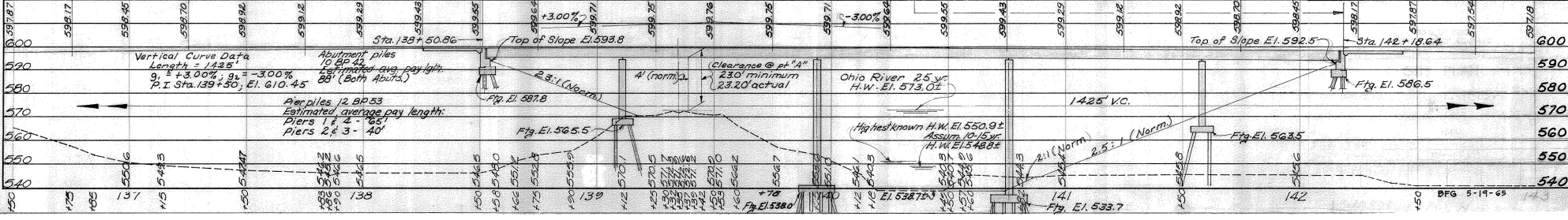
5443
REF POT STA. 139+46.23
Flasher on end of
R.R. Tie, North
side of tracks.

Flasher on end of
R.R. Tie North
side of tracks.



PROPOSED STRUCTURE
 TYPE: Continuous steel beam with reinforced concrete deck and substructure
 SPANS: 57.75' - 3 @ 25' - 57.75' 9/16 bays
 ROADWAY: 30'-0" 1/2 2'-0" safety curbs
 LOAD FREQUENCY: CF = 400 (5)
 SKEW: 20° Lt.
 WEARING SURFACE: 1" monolithic concrete
 APPR. SLABS: A3-1-54 (25' long)
 ALIGNMENT: Tangent

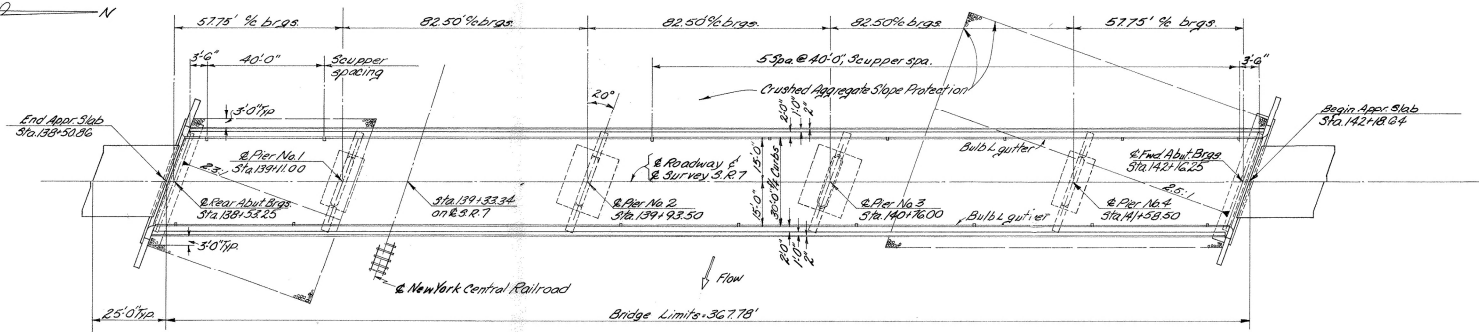
STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES			
SITE PLAN			
BRIDGE NO.	MEG-7-0262L		
OVER	N.Y.C. R.R. & Thomas Fork		
ME169 CO.	3R-7		
SEC	STA. 139+50.86		
SCALE	1" = 20'		
PRES. TOPOGRAPHY	PROPOSED WORK		
SURVEYED	DRAWN	DESIGNED	CHECKED
Aerial Survey	Aerial Survey	D.G.M.	D.G.M. N.J.B.
			REVIEWED
			Φ E.S.



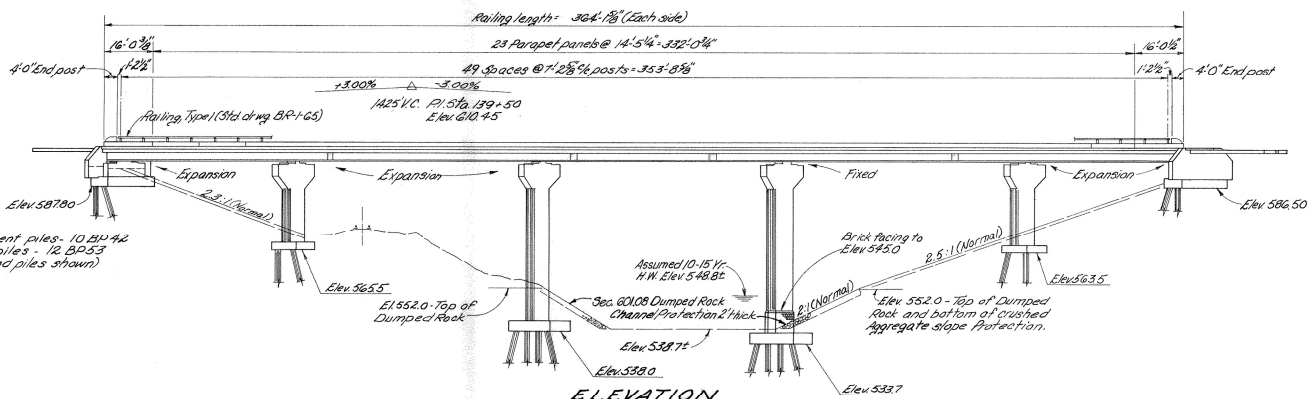
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FED. RD. DISTRICT	STATE	PROJECT	260 304
2	OHIO		

MEG-7-2.11



PLAN



NOTE: Abutment piles - 10 B.P. #2
Pier piles - 12 B.P. #3
(Only end piles shown)

ELEVATION
ESTIMATED QUANTITIES

Item	Total	Unit	Description	Abut.	Piers	Super.	Gen'l	As Built	Item	Total	Unit	Description	Abut.	Piers	Super.	Gen'l	As Built
503	Lump	Sum	Copper clasp, criss and sheeting						518	30	Cu Yd	Parapet, Each-Pill					
503	62.9	Cu Yd	Unclassified excavation	203	426				518	70	Lin Ft	6 Helical C.M.P., Sec. 10706, perforated, incl. specials					
									518	53	Lin Ft	6 Helical C.M.P., Sec. 10706, non perforated					
									518	16	Each	Scuppers, including supports			16		
511	418	Cu Yd	Class 'C' concrete, superstructure			418											
511	395	Cu Yd	Class 'C' concrete, piers above footings		395				601	1135	Sq Yd	Crushed aggregate slope protection				1135	
511	84	Cu Yd	Class 'E' concrete abutments above footings	84													
511	179	Cu Yd	Class 'E' concrete, footings	65	114												
509	149,123	Lb.	Reinforcing steel	8,839	32,037	109,447			808	418	Each	Water-reducing, set-retarding admixture				418	
513	402,000	Lb.	Structural steel			402,000			Special	326	Sq Ft	Brick facing as per plan				326	
514	402,000	Lb.	Field painting of structural steel			402,000											
517	728.27	Lin Ft	Roofing, type 1			728.27											
505	Lump	Sum	First test pile				Lump										
507	3,800	Lin Ft	Steel piles, 12 B.P. #3				3,800										
507	1,940	Lin Ft	Steel piles, 10 B.P. #2				1,940										

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

**GENERAL PLAN ELEVATION
ESTIMATED QUANTITIES**
BRIDGE NO. MEG-7-02G2L
OVER N.Y.C. R.R. THOMAS FORK
Sta. 1421+30.86
1421+18.54

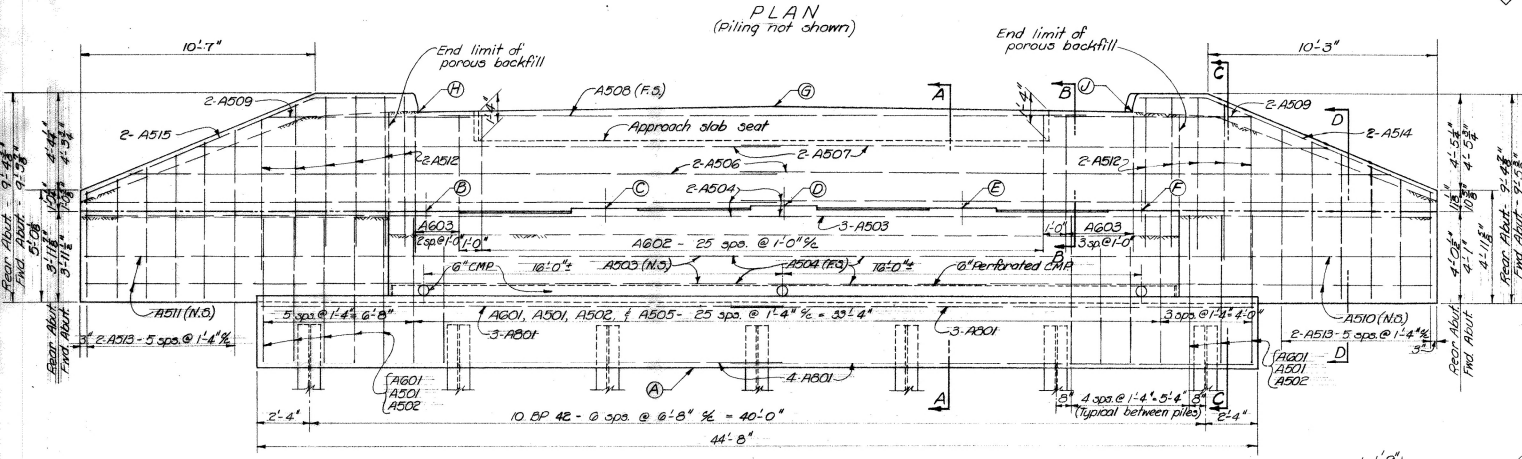
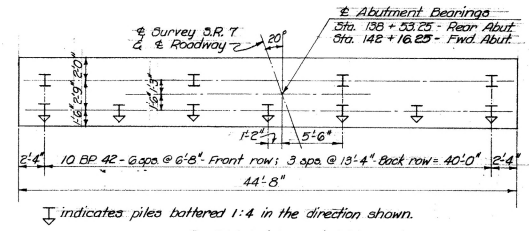
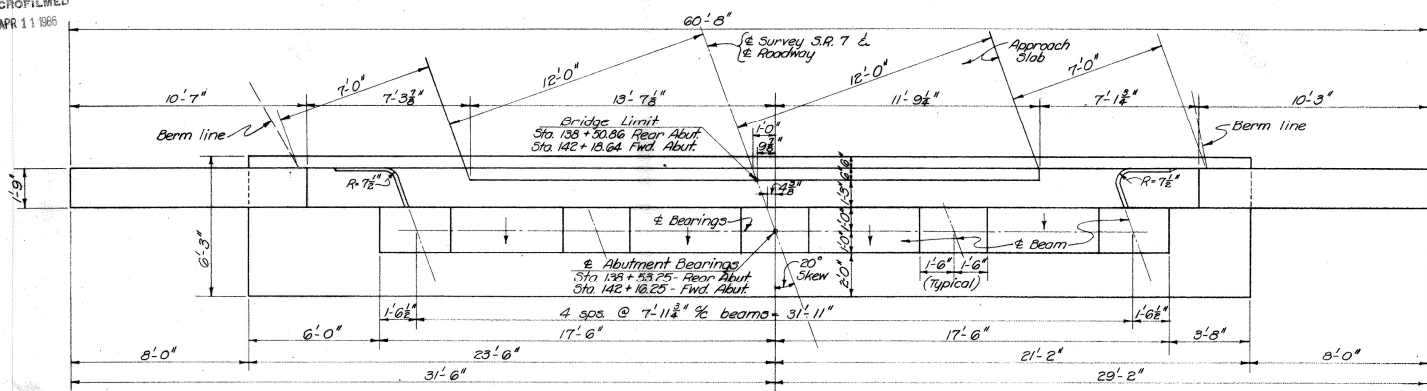
MENES COUNTY

DESIGNED	DRAWN	CHECKED	REVIEWED	DATE
NAA	JFS	JR	FNR	BFG 5-19-65

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APR 11 1966

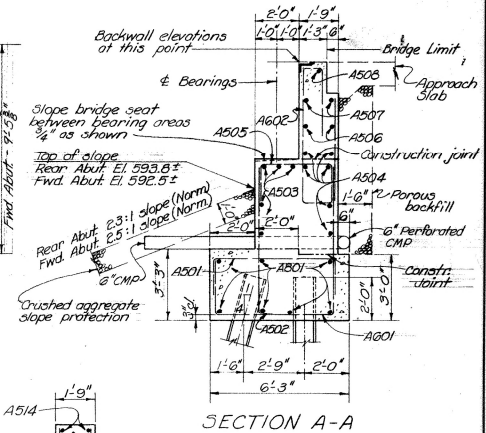
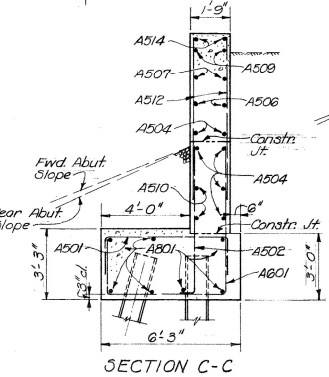
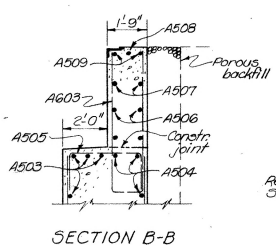
FED. RD. DISTRICT	STATE	PROJECT	(25)
2	OHIO		340

MEG-7-211



NOTE: N.S. denotes Near Side
F.S. denotes Far Side

ELEVATIONS		A	B	C	D	E	F	G	H	J
Rear Abutment		587.80	594.79	594.92	595.05	594.94	594.84	599.56	599.31	599.35
Forward Abutment		586.50	593.46	593.61	593.76	593.67	593.58	598.26	597.96	598.09



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

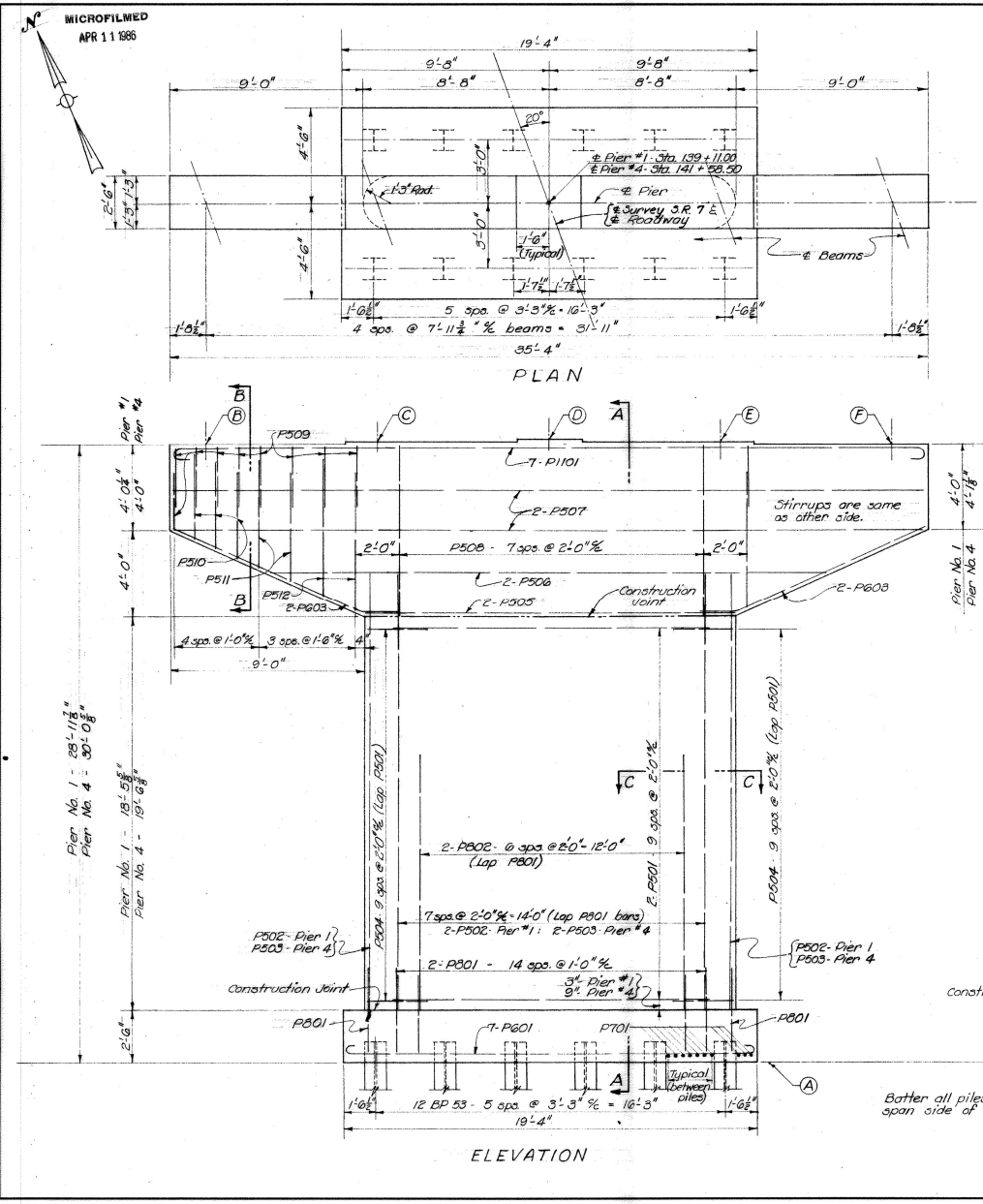
ABUTMENT DETAILS
BRIDGE NO. MEG-7-0262 L
OVER N.Y.C. R.R. AND THOMAS FORK
MEIGS COUNTY STA. 138 + 30.86
142 + 13.64

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
NAA	NAA		FHK	BFG	5-14-65	

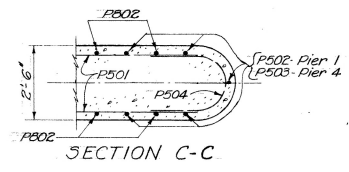
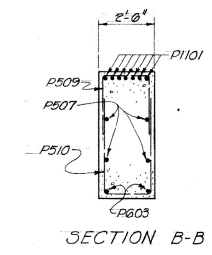
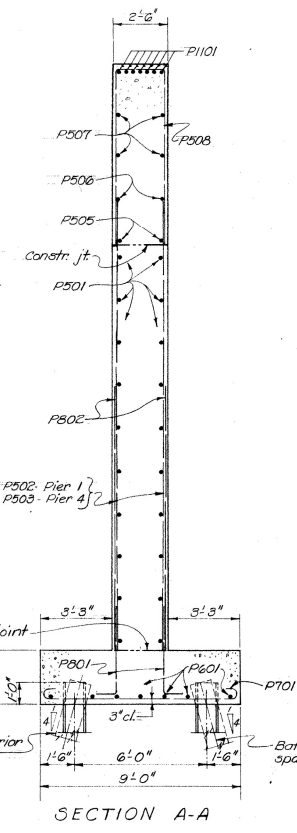
FED. RD. DISTRICT	STATE	PROJECT
2	OHIO	

252
307

MEG-7-211



ELEVATIONS						
	A	B	C	D	E	F
Pier No. 1	525.50	594.49	594.60	594.71	594.59	594.47
Pier No. 4	563.50	593.55	593.69	593.83	593.74	593.64

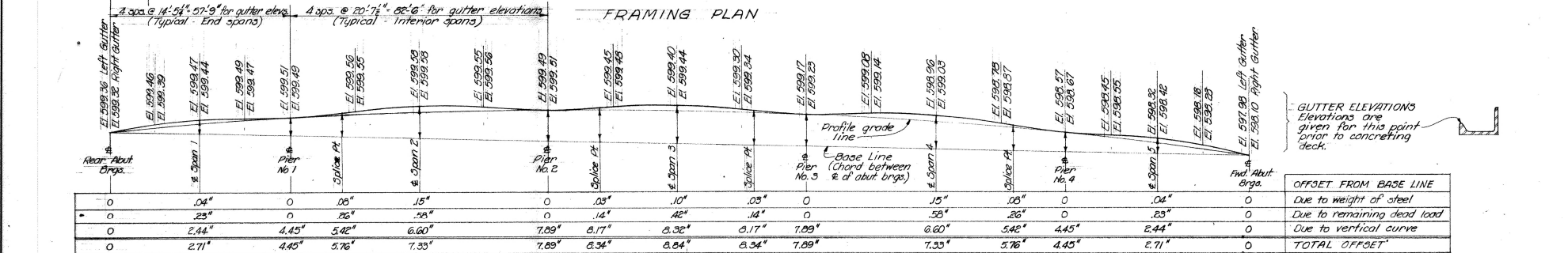
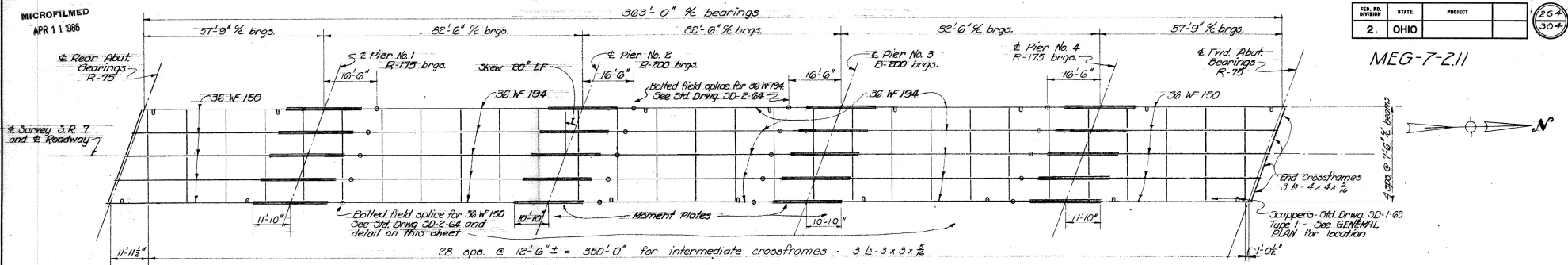


STATE OF OHIO DEPARTMENT OF HIGHWAYS DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES					
DETAILS OF PIER NO. 1 & PIER NO. 4 BRIDGE NO. MEG-7-0262L OVER NYC RR AND THOMAS FORK MEIGS COUNTY STA. 138 + 50.00 142 + 13.64					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
NAA	NAA		FR	BFG	5-19-65

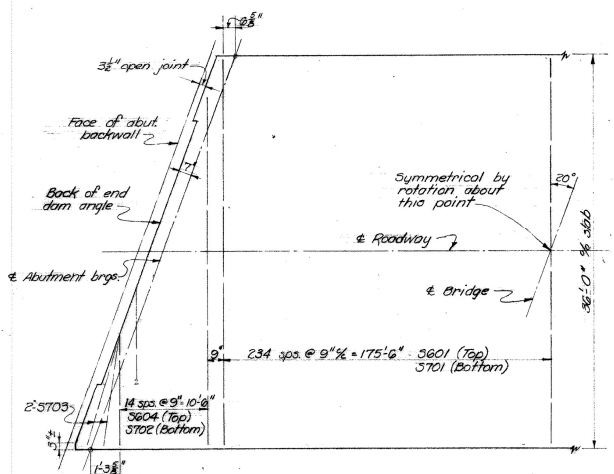
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DES. NO.	STATE	PROJECT	264 307
2.	OHIO		

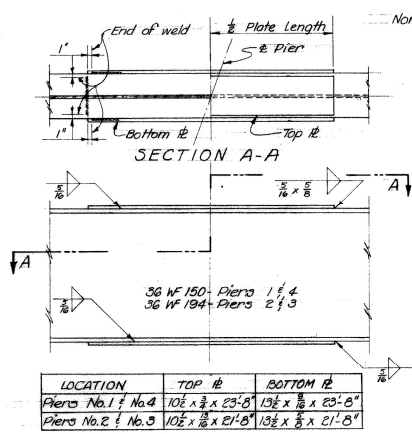
MEG-7-211



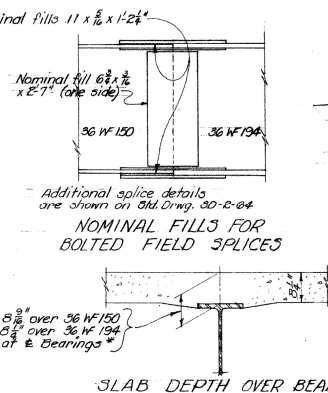
CAMBER DIAGRAM AND BULB ANGLE GUTTER ELEVATIONS



PART PLAN OF TRANSVERSE DECK REINFORCING

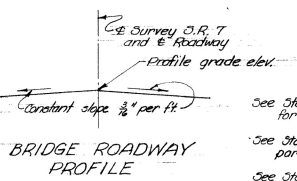


MOMENT PLATE DETAIL



SLAB DEPTH OVER BEAMS

TRANSVERSE SECTION OF SUPERSTRUCTURE shall be as shown on 3rd Drwg. 30B-4-63, sheet 4, except slab depth over beams and parapet and railing details. Parapet and railing details shall be as shown on BR-1-65 sheet 1.



BRIDGE ROADWAY PROFILE

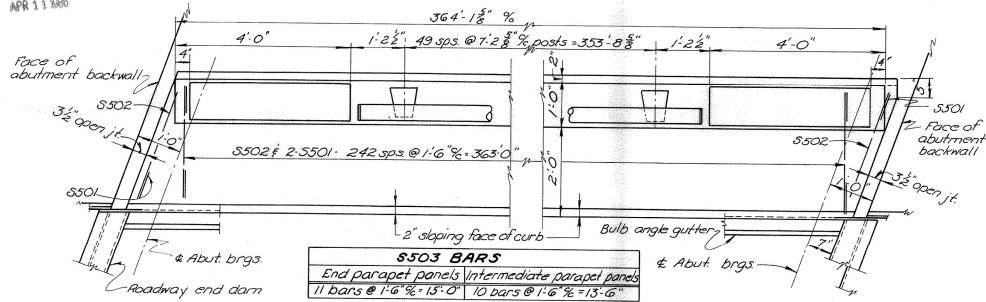
- See 3rd Drwg. 30B-4-63, sheets 1 & 4, for deck details.
- See 3rd Drwg. BR-1-65, sheet 1, for end road parapet and Type 1 railing details.
- See 3rd Drwg. RB-1-55 for details of rockers and bolsters.
- See 3rd Drwg. 30-1-63, sheets 2, 3 & 4, for details of:
Interior and end crossframes
End dome
Gutters and scuppers
Curb plates
- See 3rd Drwg. 30-2-64 for bolted field splice details.

STATE OF OHIO DEPARTMENT OF HIGHWAYS DIVISION OF DESIGN AND CONSTRUCTION BUREAU OF BRIDGES			
SUPERSTRUCTURE DETAILS			
BRIDGE NO MEG-7-0262 L OVER NYC R.R. AND THOMAS FORK			
MEIGS COUNTY		STA 135 + 50.00 142 + 10.04	
DESIGNED	DRAWN	CHECKED	REVIEWED
NAR	NAR	FAR	BFG
		DATE 5-19-65	

MICROFILMED
APR 11 1986

FED. RD. DISTRICT	STATE	PROJECT	265 304
2	OHIO		

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PART PLAN OF SUPERSTRUCTURE AT ABUTMENTS

REFERENCE shall be made to Standard Drawings SD-1-63, sheets 2, 3 & 4, dated 11-12-63; SD-2-64, dated 11-25-64; CS-3-4-63, sheets 1 & 4, dated 12-30-63; GR-1-65, sheet 1, dated 2-16-65 and RB-1-55, revised 2-2-59 and to supplemental Specifications 80B dated 7-14-65 and 811 dated 3-29-65

DESIGN LOADING-CF 400(C7)

CONCRETE CLASS C - basic unit stress 1333 p.s.i.
CONCRETE CLASS E - basic unit stress 1133 p.s.i.

STRUCTURAL STEEL - ASTM A-36 - basic unit stress 20,000 p.s.i.
REINFORCING STEEL - ASTM A15, A16, A160, Deformed, Intermediate or Hard Grade, basic unit stress 20,000 p.s.i.

EXCAVATION QUANTITY includes the removal of fill material required for the construction of the abutments and piers #1 & 4.

PILES shall be driven with a hammer of not less than 11,000 ft. lbs. per blow 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. 507.05 is not less than the following values for a pile hammer of the indicated energy rating:
65 tons per pile using an 11,000 ft. lb. hammer
55 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 50 tons per pile for Piers #1 & #4, 40 tons for Piers #2 & #3 and 35 tons for the abutments.

PROCEDURE: The embankment for both the left and the future right structures shall be placed and compacted up to the finished spill-thru slope and to the level of the subgrade for a distance of 200 feet back of the abutments. The construction of Pier #1 shall not be started until the rear approach embankment has been completed and the construction of pier 3 & 4 shall not be started until the forward approach embankment has been completed. The construction of the embankments shall be as per roadway plans. The construction of the abutments may begin after the embankments have been completed for a minimum period of 30 days.

MACHINE FINISH: At the Contractor's option, the concrete deck may be finished by the use of a finishing machine.

CONSTRUCTION CLEARANCE: of 20 ft. vertically above the top of the railroad rails and 8 ft. horizontally from the center of the tracks shall be maintained at all times.

SHEETING AND BRACING: Before construction is started, eight sets of prints showing details of the sheeting and bracing to be used for excavation adjacent to the railroad tracks shall be submitted to the Director for approval by the Department of Highways and by the Railroad Company.

ALIGNING RAILROAD TRACKS: After the Contractor has completed all excavation and backfill adjacent to the railroad tracks in compliance with Sec. 503.04 and 503.09 of the Construction and Material Specifications subject to the Supervision of the Railroad Company, nothing in Sec. 503.04, 503.09 or 103.04 of the Specifications shall be construed to hold the Contractor liable for aligning and resurfacing the railroad tracks.

* STD. DRWG. BR-1-65: Change the references to the Construction & Material Specifications as follows:

Reference given on Std. Drwg. (1963 Edition)	Reference to 1965 Edition
Sec. M-10.02	Sec. 705.03
Item O-14	Item 517
Item O-4	Item 509
Sec. M-7.4 (d)	Sec. 711.02
Sec. M-7.19	Sec. 711.20

REINFORCING STEEL LIST					BENDING DIAGRAMS				
MARK	NO.	LENGTH	WEIGHT	SHAPE	MARK	NO.	LENGTH	WEIGHT	SHAPE
Abutments					REINFORCING STEEL LIST (continued)				
AB01	28	23'-5"	175	5	PI101	30	38'-2"	6083	B #16
AG01	68	14'-2"	1447	B	P801	90	7'-0"	2142	B - 30
AG02	52	16'-3"	1269	B	P802	88	8'-10"	2643	S - 80
AG03	14	13'-9"	289	B	P803	2	7'-6"	51	S - 2
AS01	68	8'-10"	626	B	P804	84	17'-2"	4903	B - 24
AS02	68	6'-11"	491	B	P820	64	5'-8"	965	B #6
AS03	10	34'-5"	362	S	P822	28	12'-0"	897	S #22
AS04	24	31'-0"	776	S	P701	92	10'-4"	1732	B #22
AS05	52	6'-10"	371	B	P702	44	19'-4"	1739	S - 44
AS06	8	29'-3"	244	S	P601	14	20'-4"	428	B #14
AS07	8	26'-6"	221	S	P602	44	8'-0"	529	S - 44
AS08	2	28'-6"	59	S	P603	16	11'-8"	280	B #8
AS09	8	9'-2"	76	S	P604	22	22'-0"	727	B - 22
AS10	4	13'-3"	35	S	P501	40	14'-10"	619	S #40
AS11	4	15'-7"	65	S	R502	18	20'-6"	385	S #18
AS12	44	7'-0"	321	S	R503	18	21'-6"	404	S #18
AS13	8	4'-7"	70	S	R504	40	6'-3"	261	B #40
AS14	4	13'-9"	57	B	R505	8	17'-3"	144	S #4
AS15	4	14'-9"	62	B	R506	8	25'-8"	214	S #4
Superstructure					R507	16	35'-0"	584	S #8
3701	469	35'-8"	34,191	S	R508	16	17'-3"	291	B #16
2	5'-1"				R509	36	7'-3"	272	B #36
3702	10	33'-11"	1,196	S	P510	12	9'-11"	124	B #12
15	33'-11"				P511	8	11'-11"	99	B #8
3703	8	5'-1"	83	S	P512	8	14'-7"	122	B #8
3601	469	35'-8"	25,125	S	P513	22	24'-0"	357	S - 22
3602	630	38'-2"	36,116	S	P514	22	28'-0"	642	S - 22
3603	96	33'-0"	4,758	S	P515	96	14'-4"	1432	S - 96
2	5'-1"				P516	12	17'-11"	224	B #12
3604	10	33'-11"	879	S	P517	36	7'-9"	291	B #36
15	33'-11"				P518	12	10'-5"	130	B #12
3501	976	2'-4"	2375	B	P519	8	12'-5"	104	B #8
3502	490	3'-6"	1789	B	P520	8	15'-1"	126	B #8
3503	504	3'-7"	2935	B	P521	86	6'-11"	693	B - 36
R301	184	14'-1"			REPLACEMENT STEEL				
R302	16	15'-8"			RE11001	1	7'-6"		S
R303	12	4'-2"			RE900	1	6'-10"		S
R304	8	5'-4"			RE500	1	6'-6"		S
					RE700	2	6'-2"		S
					RE600	4	5'-11"		S
					RE500	1	5'-7"		S

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

SUPERSTRUCTURE DETAILS, NOTES AND REINFORCING STEEL LIST

BRIDGE NO. MEG-7-0262L
OVER N.W.C. RR. AND THOMAS FORK
MEIGS COUNTY
STA. 139+50.86
142+10.64

DESIGNED	DRAWN	CHECKED	REVIEWED
NAA	NAA	FHE	BFG

5-14-65