

FED. RD.	STATE	PROJECT	
	OHIO		

385

498

Profile view of the bridge showing a 48'-0" span with 5'-0" approach on each side. The profile grade is shown as a line with a 3/16" per foot slope on both ends. The bridge deck is 3'-0" wide on each side of the centerline.

Hand-drawn diagram showing a horizontal line divided into four segments by three vertical lines. The segments are labeled from left to right: 8'-2", 20'-6", 13'-6", and 10'-0". A vertical line segment labeled 'F' is positioned below the 20'-6" segment.

TYPICAL SECTION
EXISTING WICK AVE.

FOUNDATION SOUNDINGS

FOUNDATION DESIGN AND FOUNDATION QUANTITIES ARE BASED ON A STUDY OF ROCK SOUNDINGS AND SOIL SAMPLINGS MADE AT THE SITE. THIS SOUNDING INFORMATION MAY BE INSPECTED IN THE OFFICE OF THE BUREAU OF BRIDGES IN COLUMBUS OR IN THE DIVISION OFFICE BUT THE STATE DOES NOT GUARANTEE THE ACCURACY THEREOF.

PROPOSED STRUCTURE

TYPE: CONTINUOUS STEEL BEAM WITH
REINFORCED CONCRETE DECK AND
SUBSTRUCTURE
SKEW: 0°-00'-00"
SPANS: 40'-0"-47'-9"-47'-9"-40'-0" $\frac{6}{8}$ BEARINGS.
ROADWAY: 48'-0" $\frac{7}{8}$ 5'-0" SIDEWALKS.
WEARING SURFACE: 1" MONOLITHIC
LOAD FREQUENCY: C.F.2000(57)
APPROACH SLABS: 23' LONG
ALIGNMENT: STRAIGHT
SUPERELEVATION: NONE
SLOPE, PROTECTION: 60:1 CRUSHED AGGREGATE
TRAFFIC: ADT (1975) 24,000

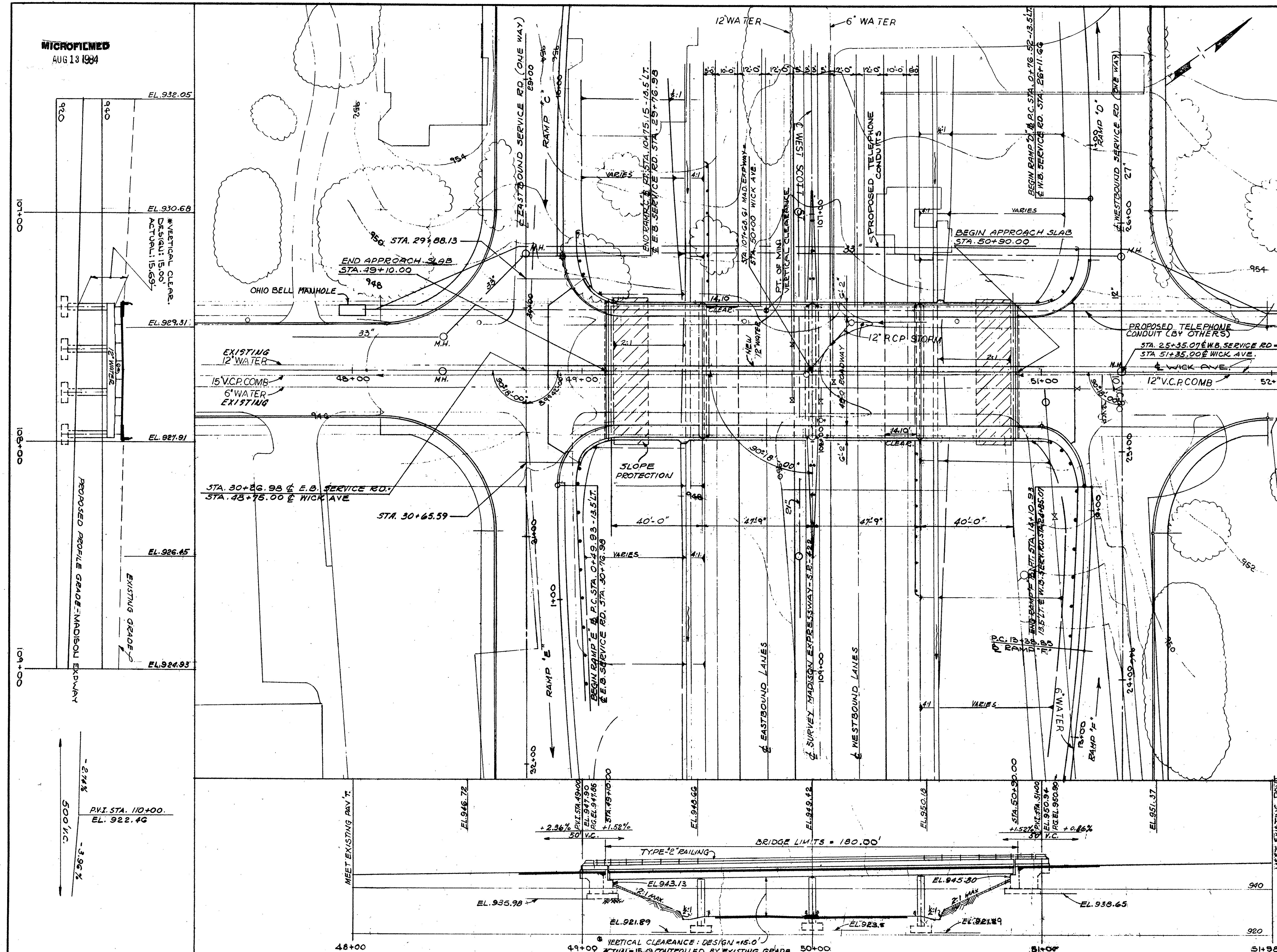
STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

BEISWENGER, HOCH & ASSOCIATES AND ROBERT J. SCHOMER
CONSULTING ENGINEERS

4 YOUNGSTOWN ROAD YOUNGSTOWN 14, OHIO

SITE PLAN
BRIDGE N° MAH-422-0313
UNDER WICK AVENUE
YOUNGSTOWN MAHONING COUNTY
STA 107+68.61

DESIGNED NPW	DRAWN KMB:SSJ JWW	TRACED	CHECKED Ced	REVIEWED R. P. H.	DATE 9-8-66	REVISED
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MICROFILMED
AUG 18 1984

FED. RD.	STATE	PROJECT
	OHIO	

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MAH-422-2.30

END APPROACH SLAB
STA. 49+10

STA. 49+12.25

STA 49+44.00

STA. 49+52.25

STA 50+00

STA. 50+47.75

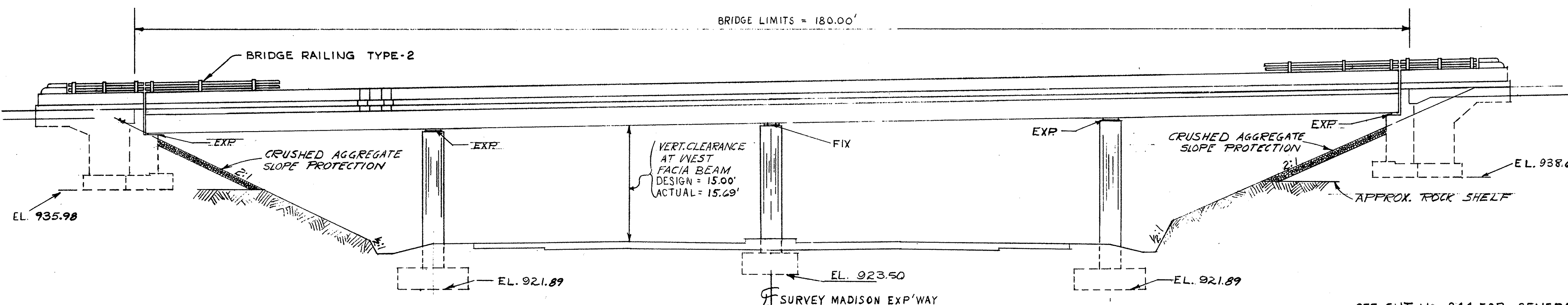
STA 50+56

BEGIN APPROACH SLAB
STA. 50+90

STA. 50+87.75

PLAN

BRIDGE LIMITS = 180.00'



ELEVATION ESTIMATED QUANTITIES

SEE SHT. No. 344 FOR GENERAL NOTES.
SEE ROADWAY PLANS SHT. No. 276 FOR
WATERLINE QUANTITIES AND DETAILS
NOT INCLUDED IN BRIDGE PLANS.
*INCLUDES 1413 POUNDS OF STRUCTURAL STEEL
USED FOR SUPPORT OF THE TELEPHONE CONDUITS TO BE
PAID FOR BY THE TELEPHONE COMPANY.

PAID FOR BY THE TELEPHONE COMPANY.																																			
ITEM	TOTAL	UNIT	DESCRIPTION	SUPER	ABUT'S	PIERS	GEN			ITEM	TOTAL	UNIT	DESCRIPTION	SUPER	ABUT'S	PIERS	GEN			STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES															
503	350	CU.YDS	UNCLASSIFIED EXCAVATION		350					512	24	LN.FT	WATERPROOFING PREMOLDED SEALING STRIP		24					BEISWENGER, HOCH & ASSOCIATES AND ROBERT J. SCHOMER CONSULTING ENGINEERS 4 YOUNGSTOWN ROAD YOUNGSTOWN 14, OHIO															
503	295	CU.YDS	ROCK EXCAVATION			295				513	215600	LBS.	*STRUCTURAL STEEL	215600						518	107	UN.FT.	6"PERFORATED HELICAL CMP 707.06 INCLUDING SPECIALS		107										
509	159,200	LBS	REINFORCING STEEL	97,669	11,033	50,498				514	215600	LBS.	*FIELD PAINTING OF STRUCTURAL STEEL	215600						518	100	LN.FT.	6" HELICAL CMP 707.06 NON PERFORATED		100										
																			601	278	SO.YDS	CRUSHED AGGREGATE SLOPE PROTECTION		278											
511	367	CU.YDS	CLASS "C" CONCRETE SUPERSTRUCTURE	367															625			SEE SHEET 283 FOR LIGHTING SUMMARY													
511	155	CU.YDS	CLASS "E" CONCRETE ABUT. ABOVE FOOTINGS		155					517	42.41	LN.FT.	BRIDGE RAILING TYPE-2	353.70	58.71				808	367	UNITS	WATER REDUCING, SET RETARDING ADMIXTURE	367												
511	122	CU.YDS	CLASS "C" CONCRETE PIERS ABOVE FOOTINGS			122																													
511	175	CU.YDS	CLASS "E" CONCRETE PIERS & ABUT. FOOTINGS		68	107													825	1290	SO.YDS	CONCRETE SURFACE TREATMENT				1290									
										518	61	CU.YDS	POROUS BACKFILL		61				828	117	LN.FT	JOINT SEALER		117											
																				DESIGNED				DRAWN		TRACED		CHECKED		REVIEWED		DATE		REVISED	
																				NFW		JAK.				CJS		RCH		9-8-66					

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES
BEISWENGER, HOCH & ASSOCIATES AND ROBERT J. SCHOMER
CONSULTING ENGINEERS
4 YOUNGSTOWN ROAD YOUNGSTOWN 14, OHIO

GENERAL PLAN & ELEVATION
BRIDGE No MAH-422-0313
UNDER WICK AVENUE
YOUNGSTOWN MAHONING COUNTY
STA. 107+68.61

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
NPW	JAK		CS	RDH	9-8-66	

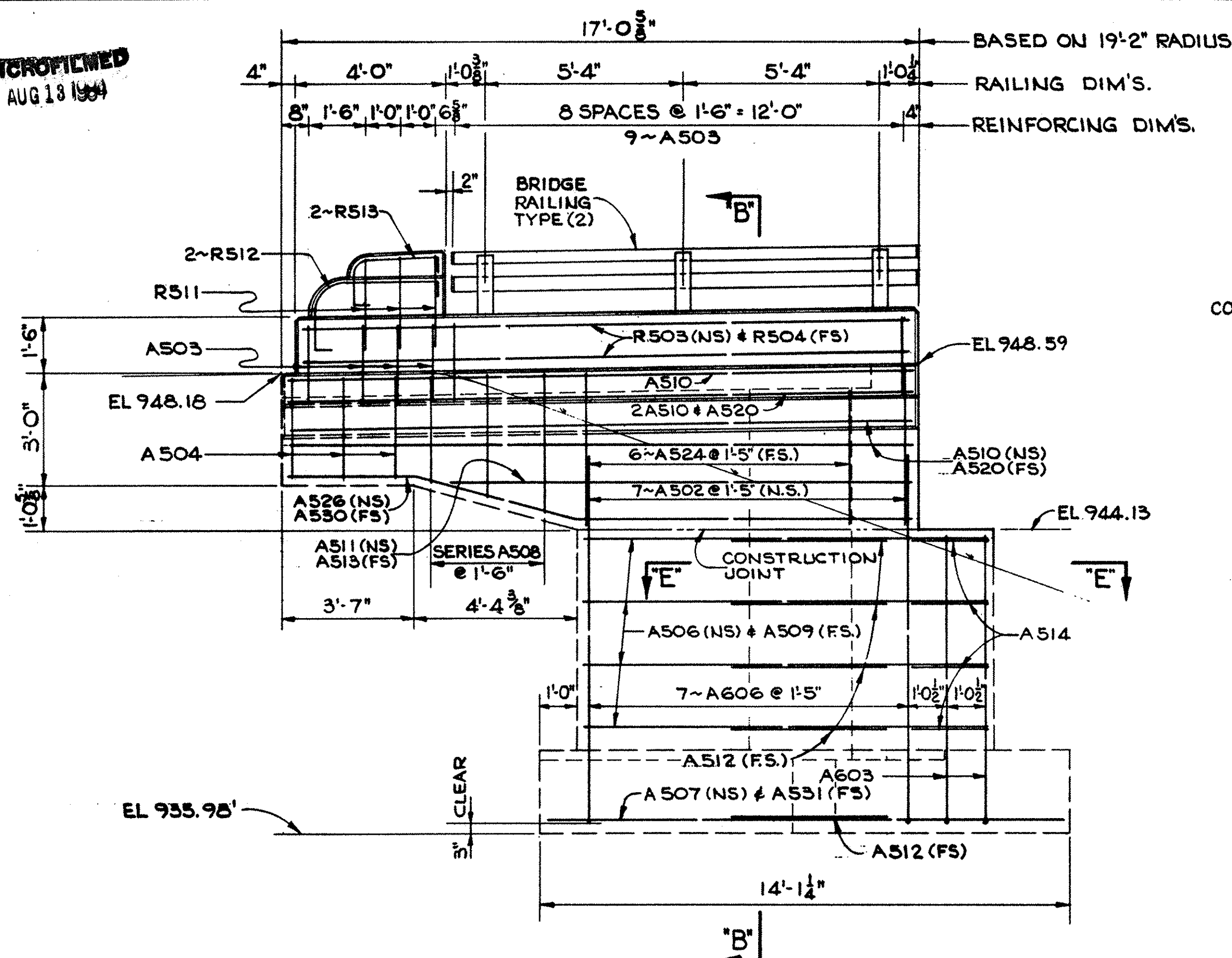
STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES					
BEISWENGER, HOCH & ASSOCIATES AND ROBERT J. SCHOMER CONSULTING ENGINEERS					
4 YOUNGSTOWN ROAD			YOUNGSTOWN 14, OHIO		
ABUTMENT #1 PLAN & ELEVATION BRIDGE NO. MAH-422-0313 UNDER WICK AVENUE YOUNGSTOWN MAHONING COUNTY STA 107+68.61					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
NPW	NPW		CS		RDH 9-8-66
					REVISED

MICROFILMED
AUG 18 1994

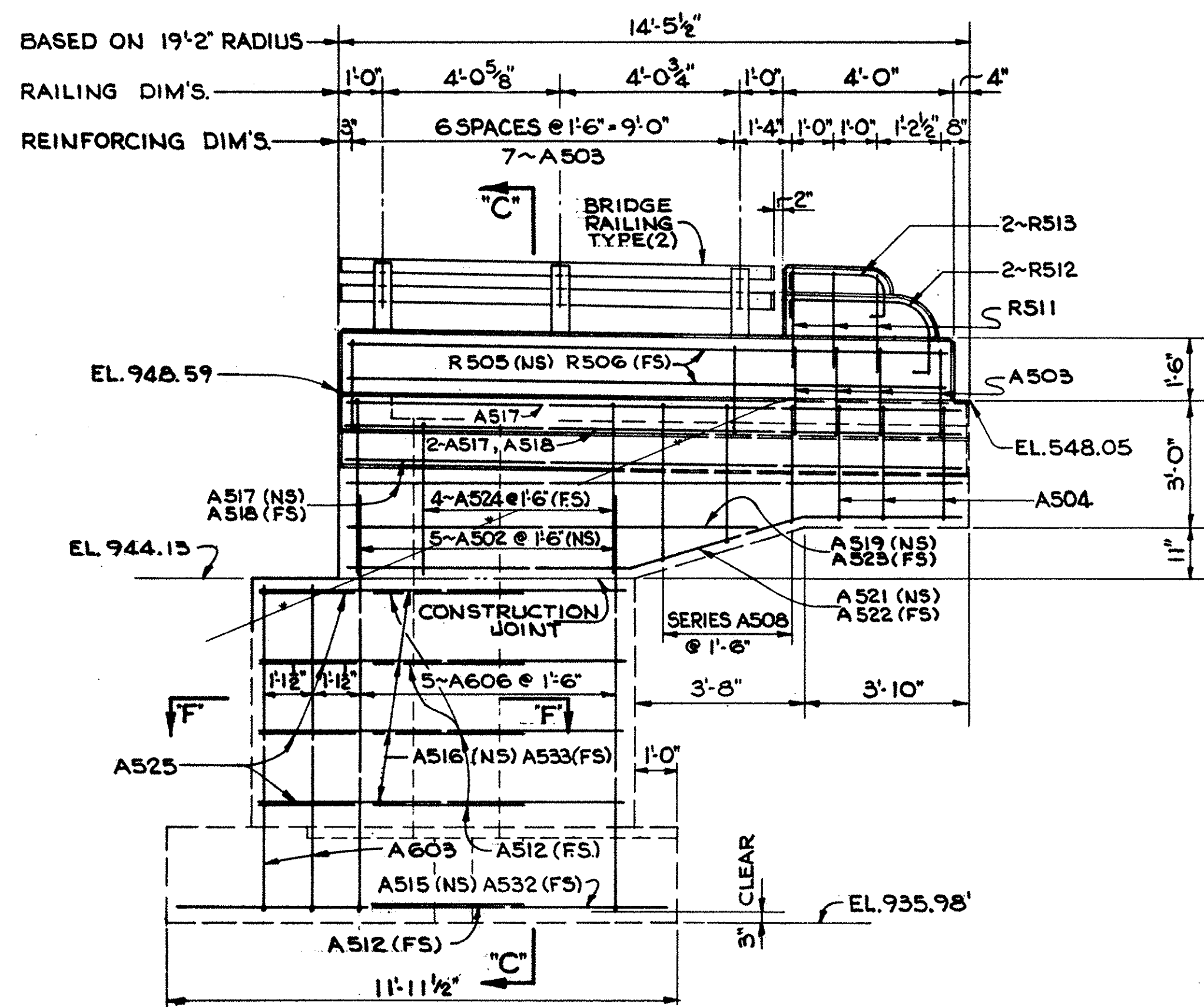
FED. RD.	STATE	PROJECT
	OHIO	

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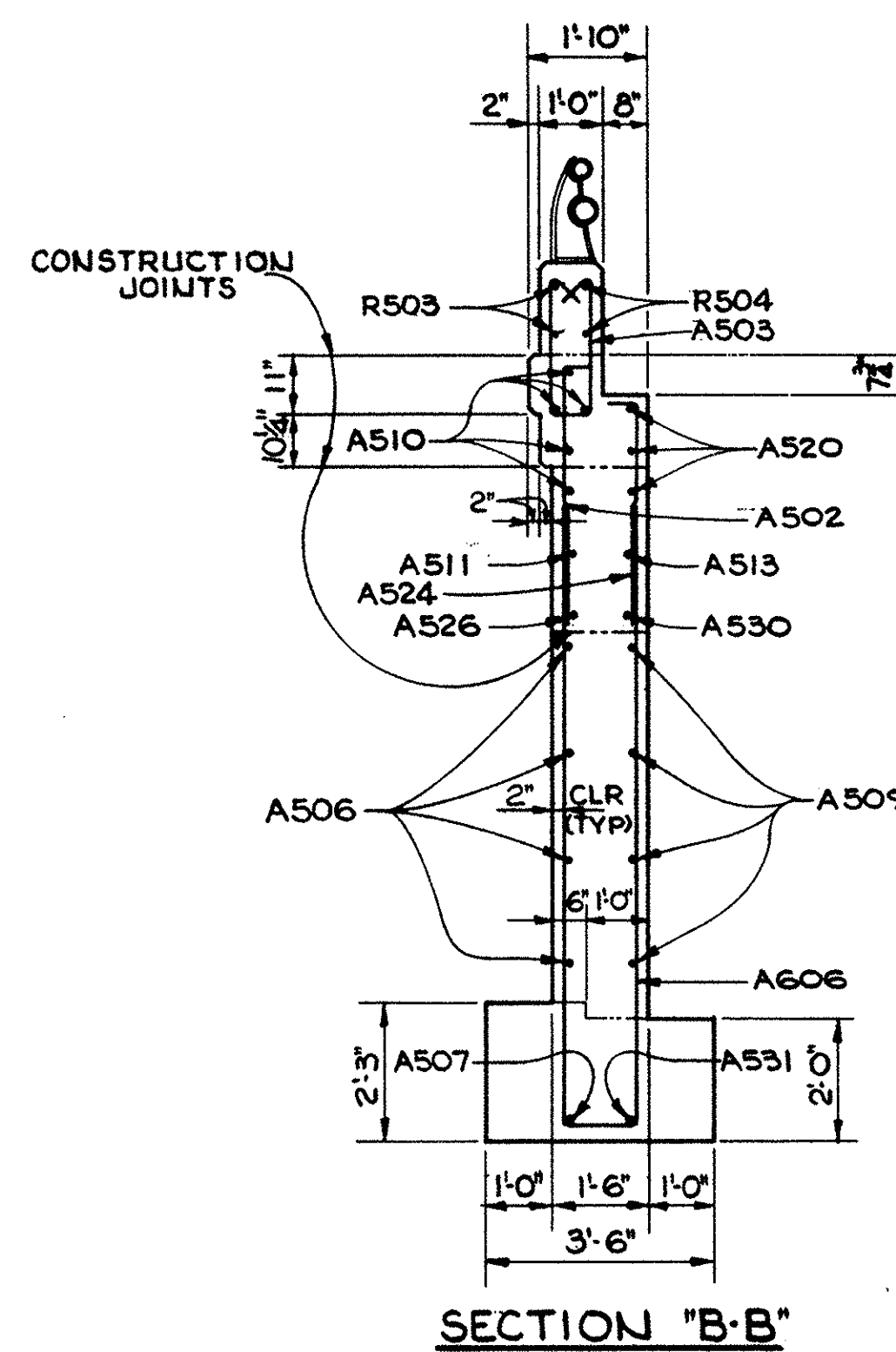
MAH 422-2.50



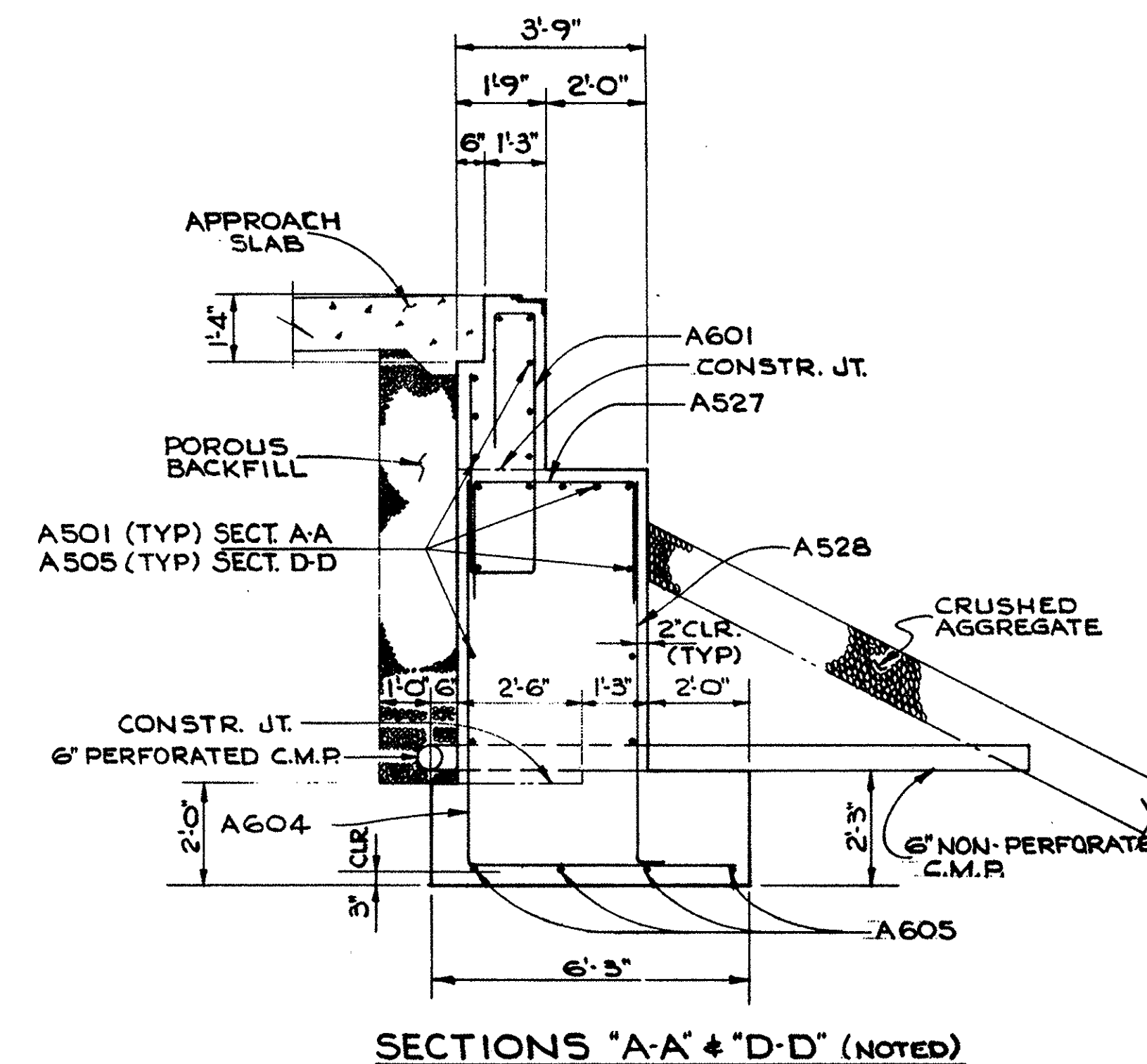
EXPANDED ELEVATION VIEW EAST WING WALL ABUT #1
HORIZONTAL LENGTHS ARE MEASURED ON OUTSIDE FACE OF WALL ~ RADIUS = 19'-2"



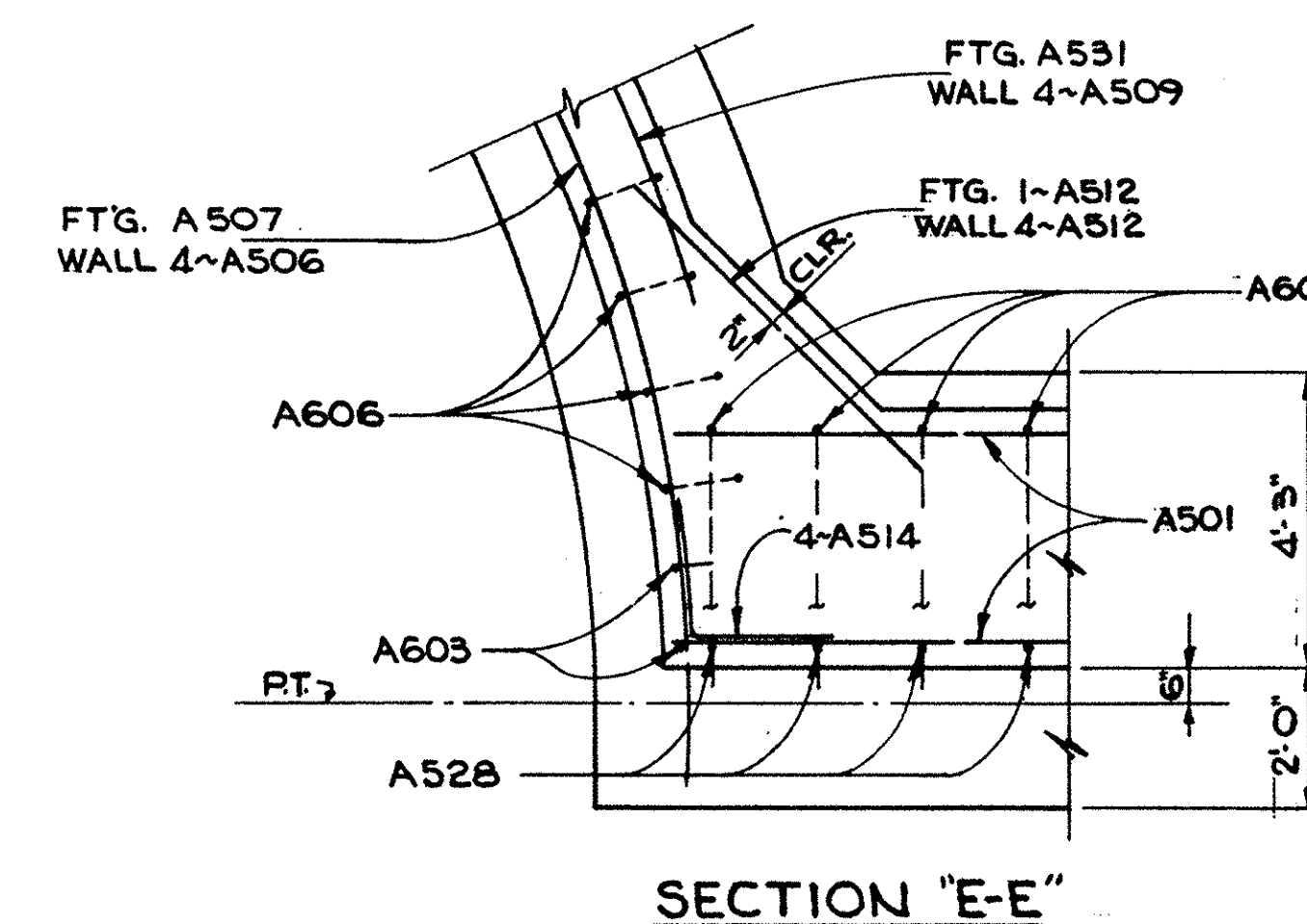
EXPANDED ELEVATION VIEW WEST WALL ABUT #1
HORIZONTAL LENGTHS ARE MEASURED ON OUTSIDE FACE OF WALL ~ RADIUS = 19'-2"



SECTION "B-B"



SECTIONS "A-A" & "D-D" (NOTED)

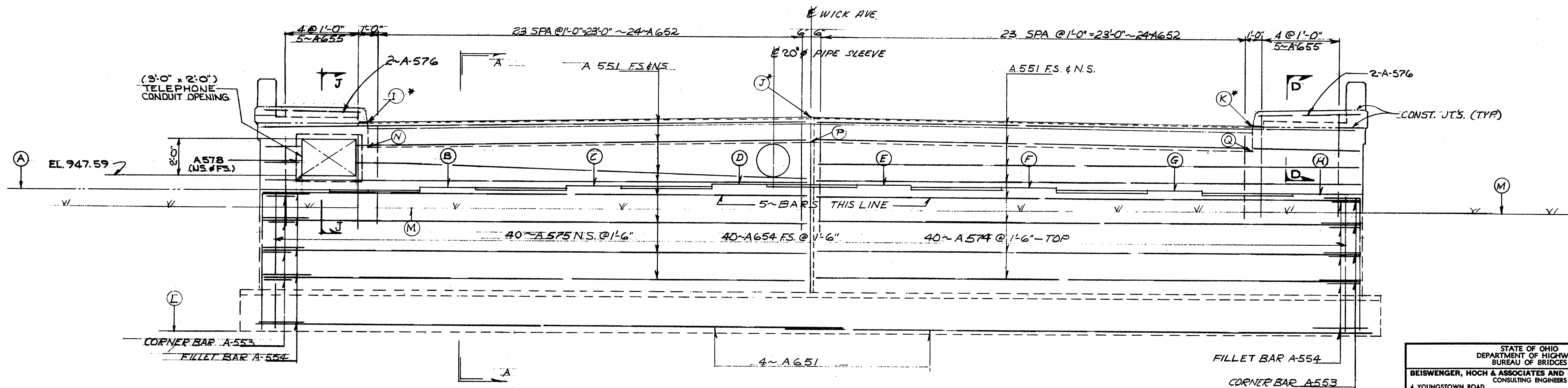
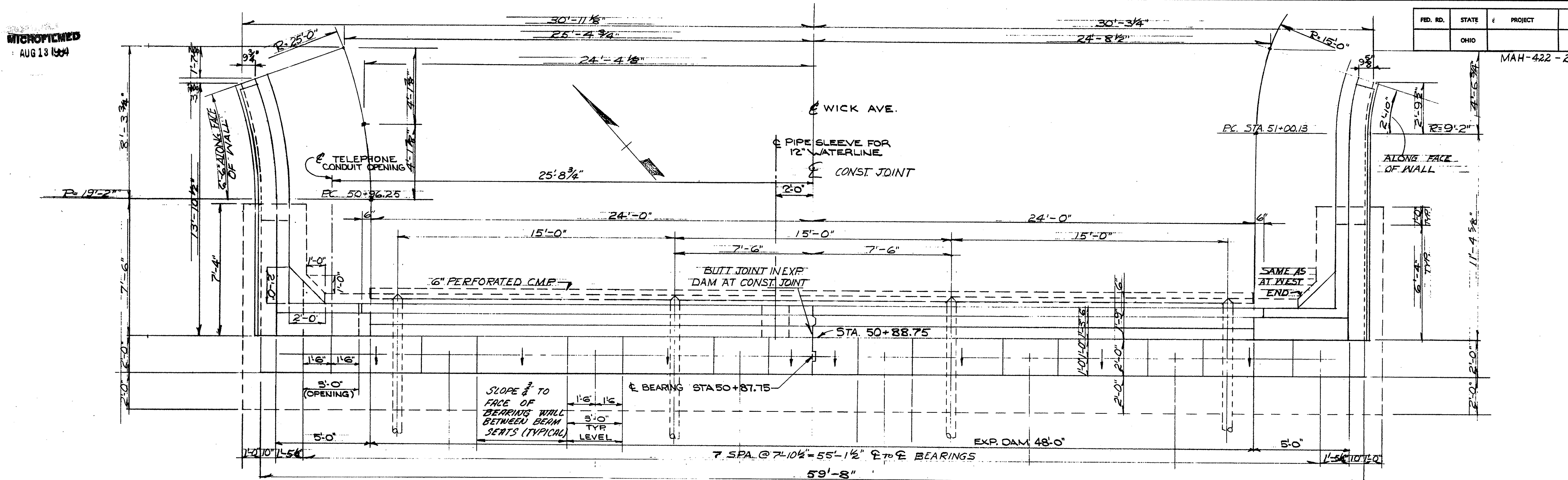


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AUG 13 1984

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MAH-422-230



ELEVATION TABLE															
	A	B	C	D	E	F	G	H	I*	J*	K*	L	M	N	P
ABUT. #2	946.80	946.93	947.05	947.16	947.06	947.05	946.93	946.80	950.38	950.76	950.38	938.65	945.80	949.06	949.44

* DENOTES FINISHED PAVEMENT ELEVATIONS AT FACE OF BACKWALL.

STATE OF OHIO
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BUREAU OF BRIDGES

BEISWENGER, HOCH & ASSOCIATES AND ROBERT J. SCHOMER
CONSULTING ENGINEERS
4 YOUNGSTOWN ROAD YOUNGSTOWN 14, OHIO

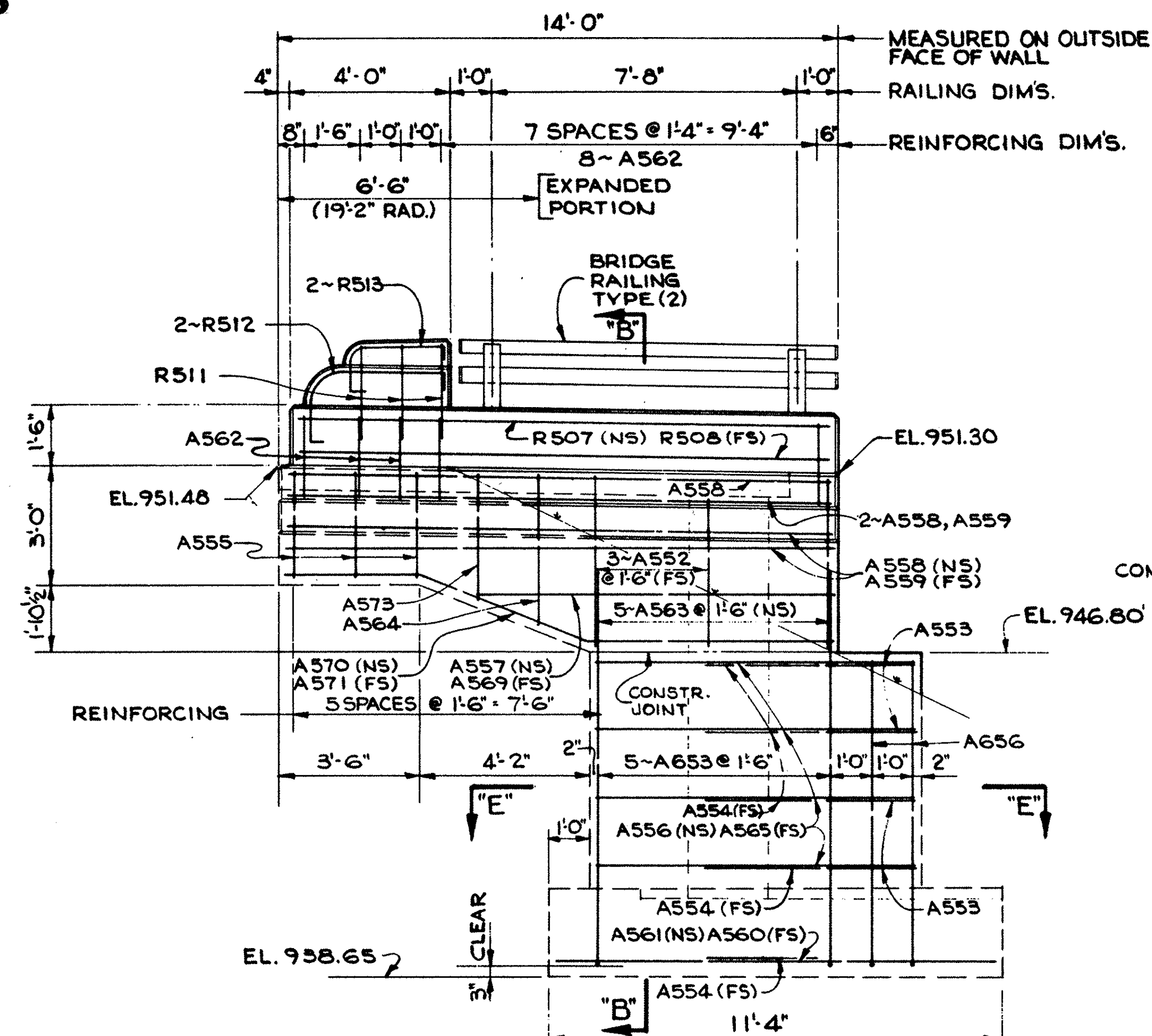
ABUTMENT #2 PLAN & ELEVATION
BRIDGE NO. MAH-422-0313
UNDER WICK AVENUE
YOUNGSTOWN MAHONING COUNTY
STA 107+68.61

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
NFW	NFW		CS		204 9-8-66	

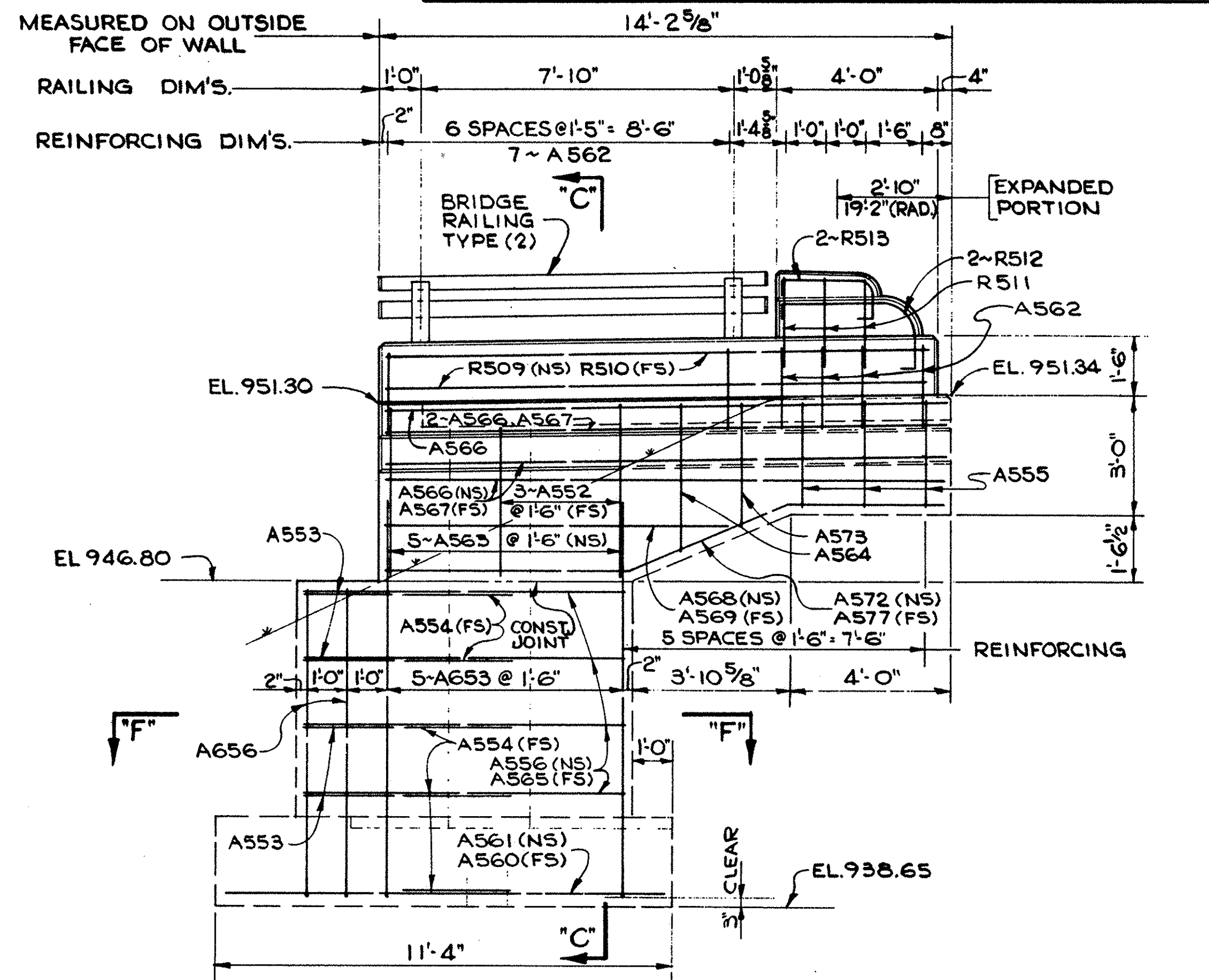
MICROFILMED
AUG 18 1964

FED. RD.	STATE	PROJECT
	OHIO	

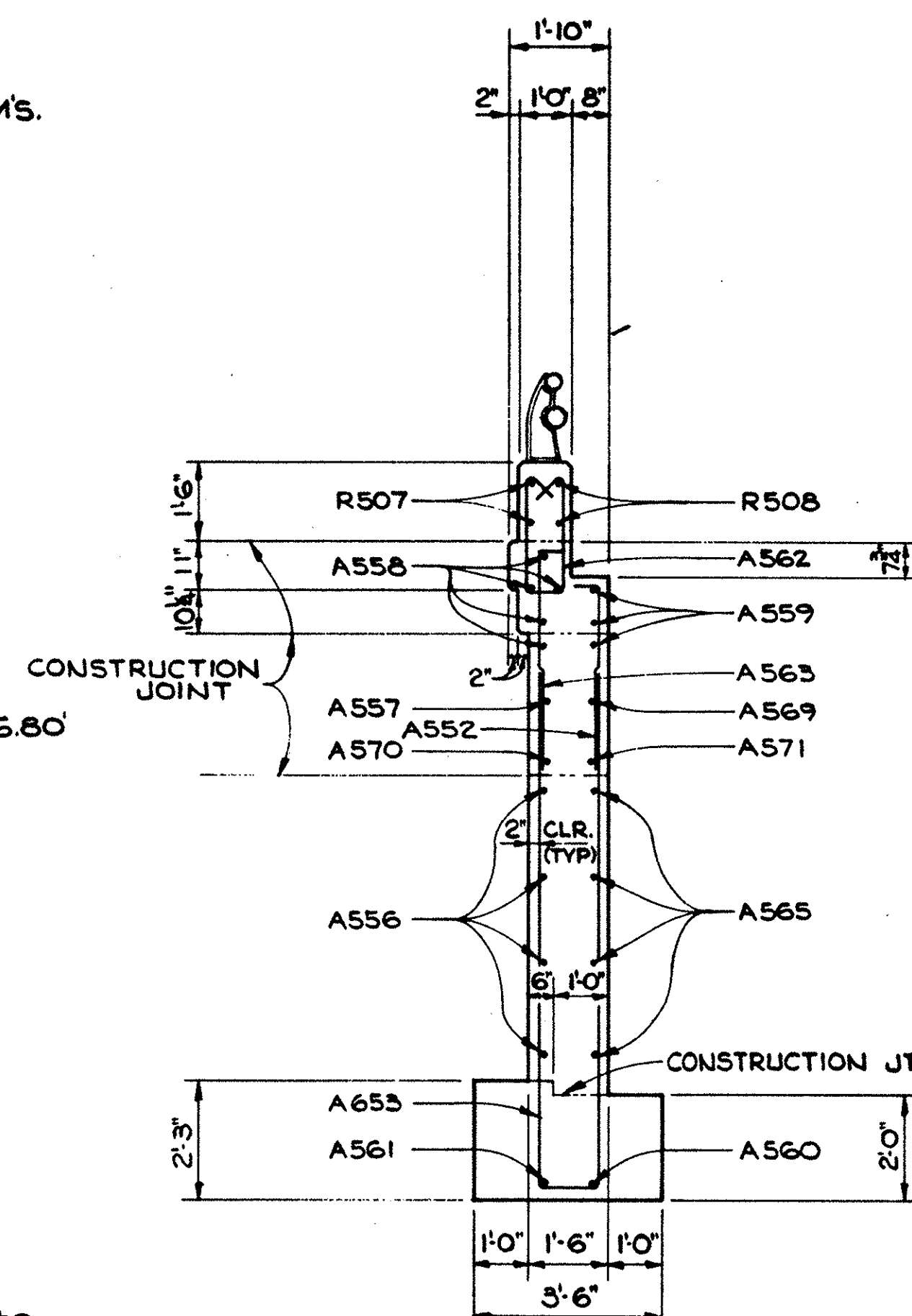
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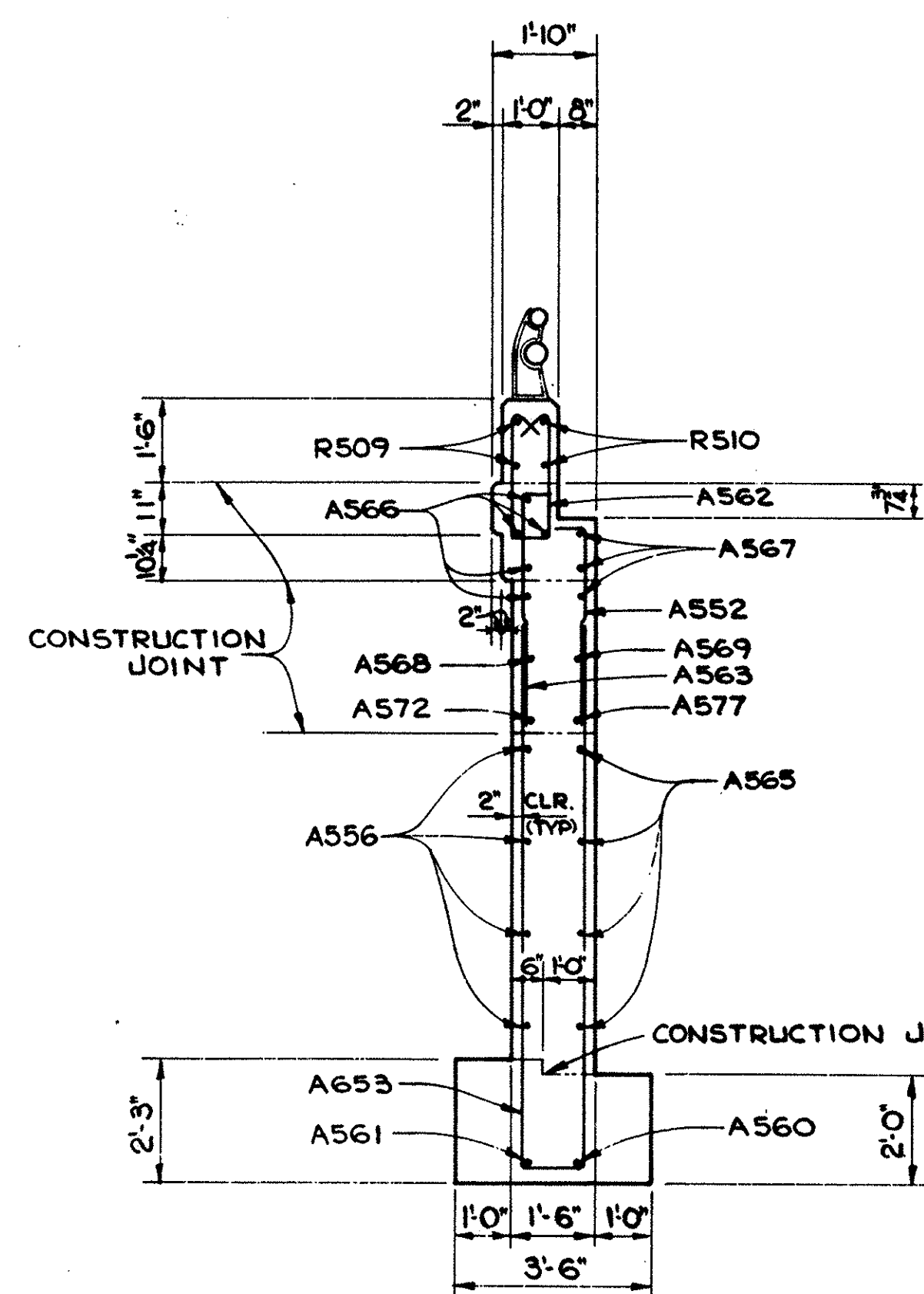
ELEVATION VIEW WEST WING WALL ABUT.#2



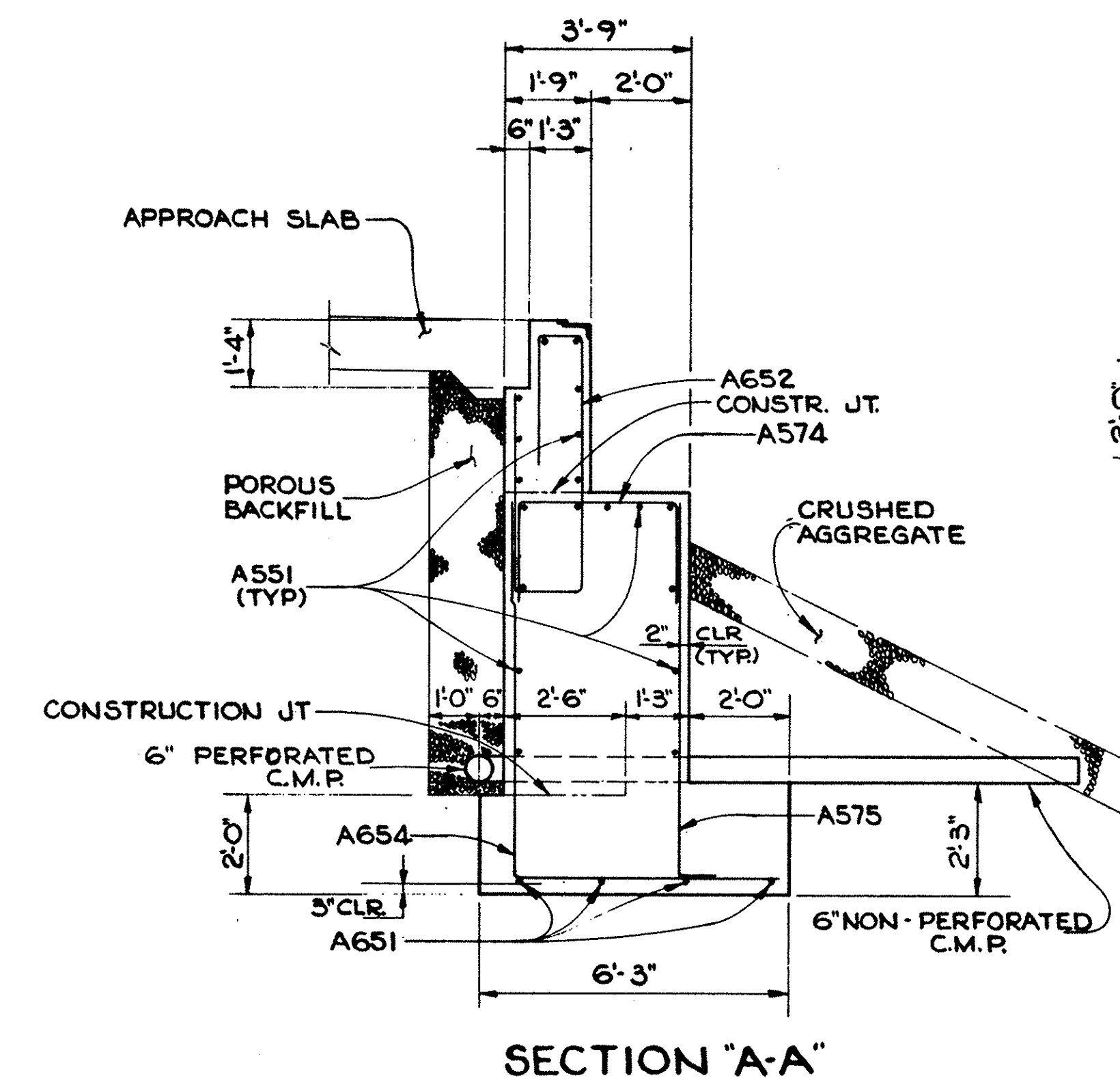
ELEVATION VIEW EAST WING WALL ABUT.#2



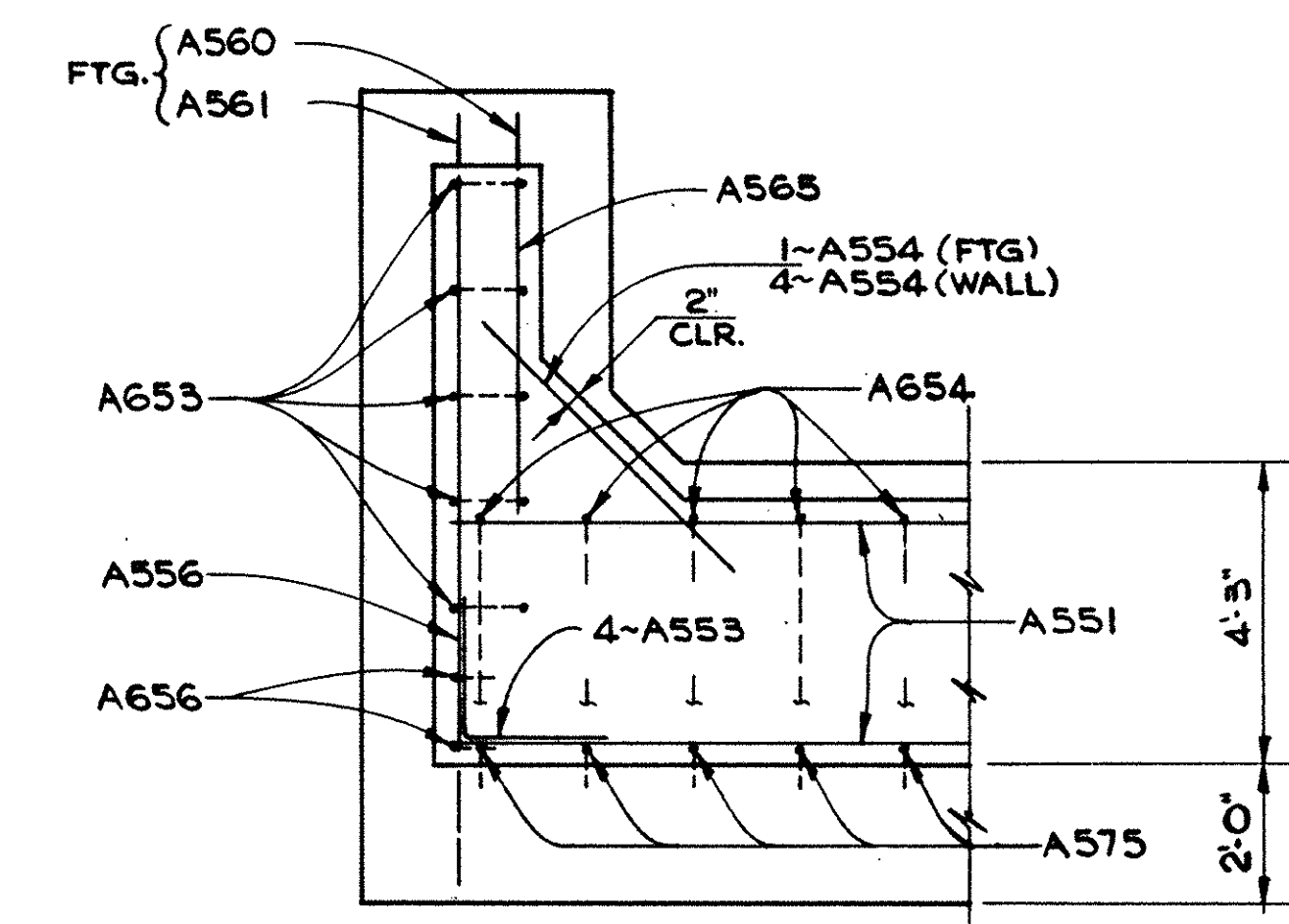
SECTION "B-B"



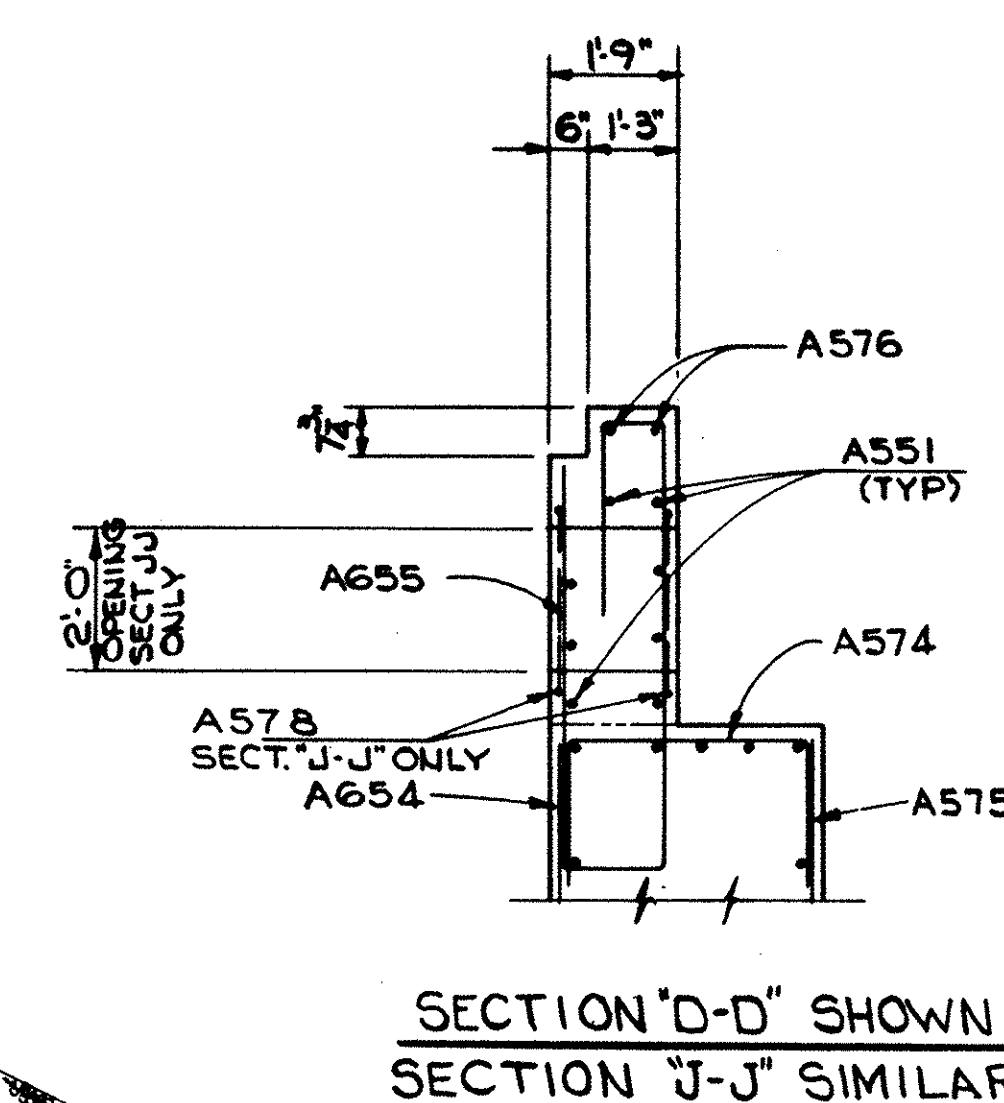
SECTION "C-C"



SECTION "A-A"



SECTION "E-E" SHOWN
SECTION "F-F" OPPOSITE HAND



SECTION "D-D" SHOWN
SECTION "J-J" SIMILAR

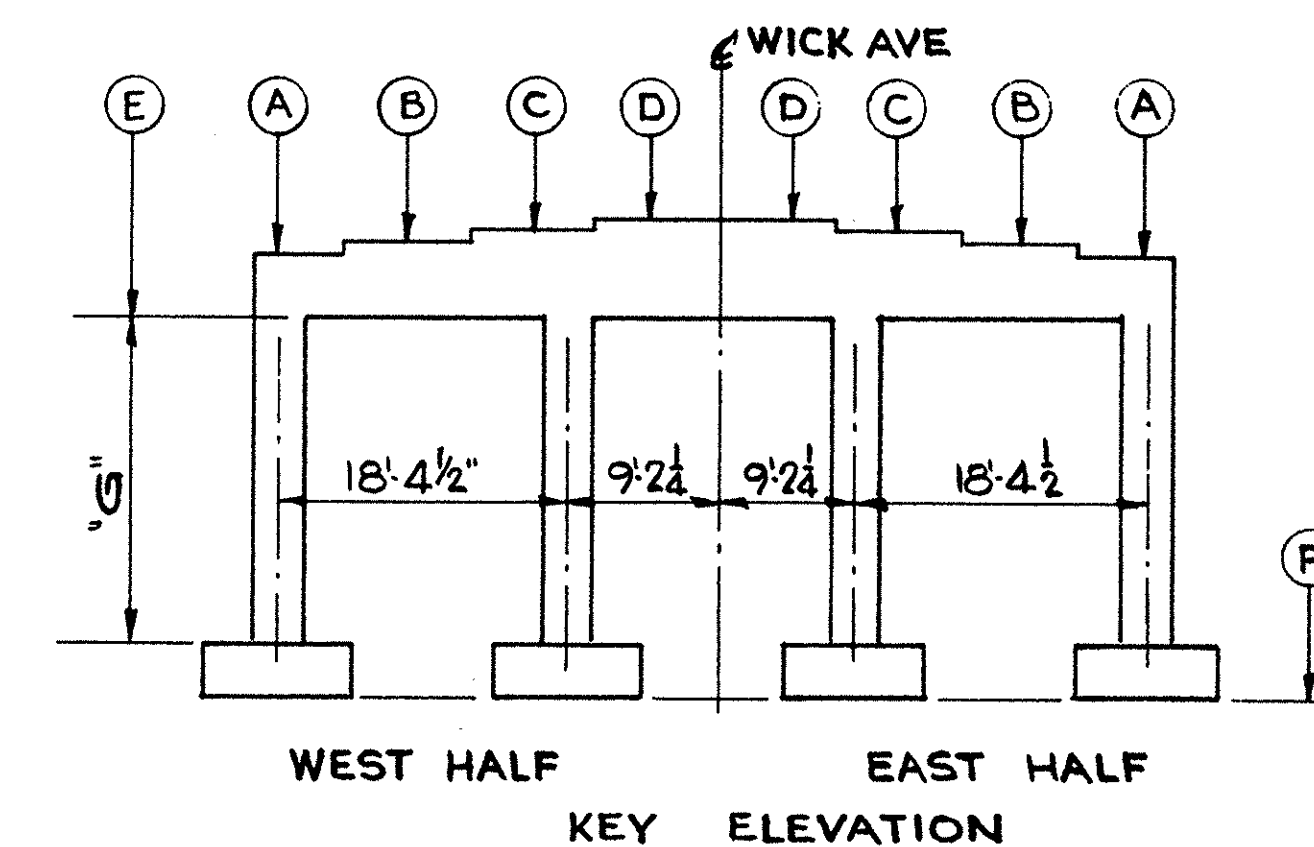
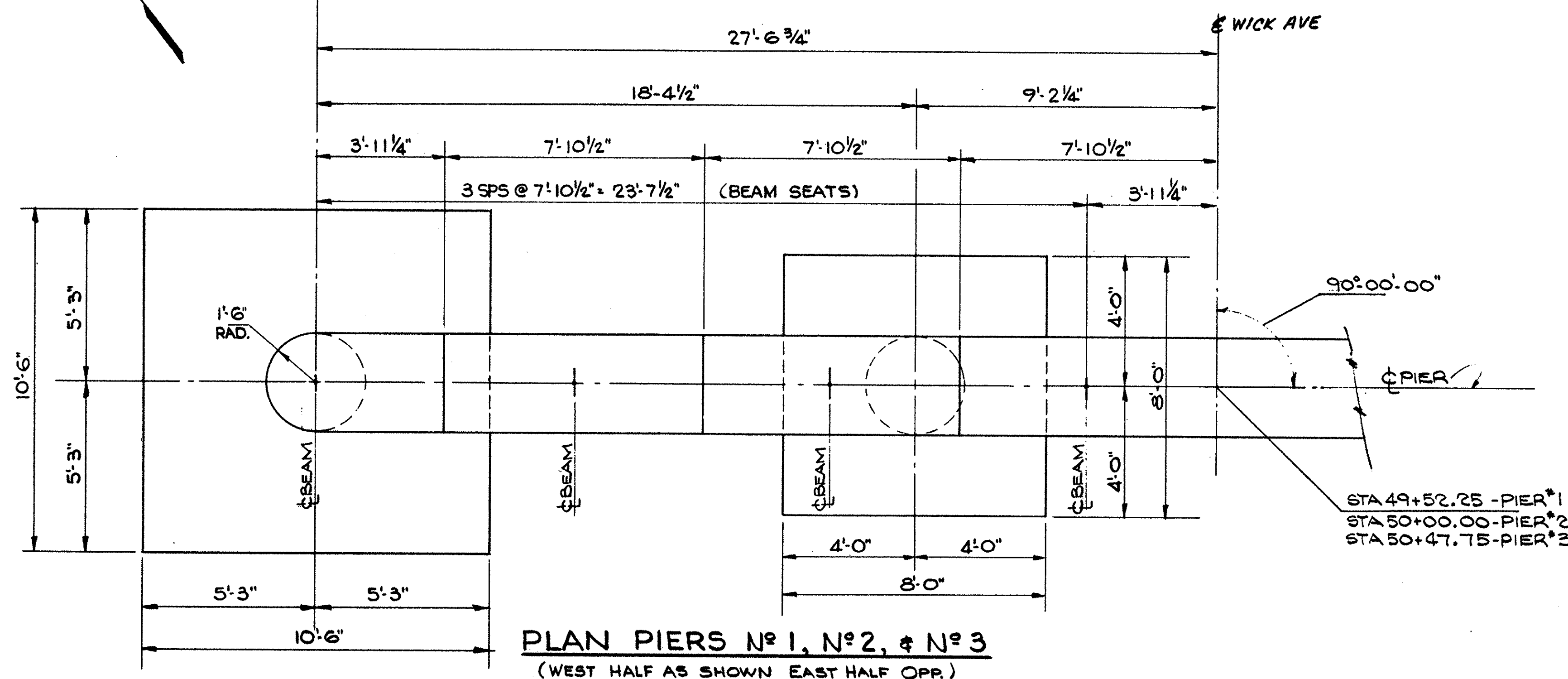
STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES						
BEISWENGER, HOCH & ASSOCIATES AND ROBERT J. SCHOMER CONSULTING ENGINEERS 4 YOUNGSTOWN ROAD YOUNGSTOWN 14, OHIO						
ABUTMENT #2 DETAILS						
BRIDGE NO MAH 422-0313						
UNDER WICK AVE.						
YOUNGSTOWN MAHONING COUNTY						
STA 107 + 62.61						
DESIGNED NPW	DRAWN ALH	TRACED	CHECKED CLO	REVIEWED RBN	DATE 9-8-66	REVISED

MICROFILMED
1 AUG 18 1964

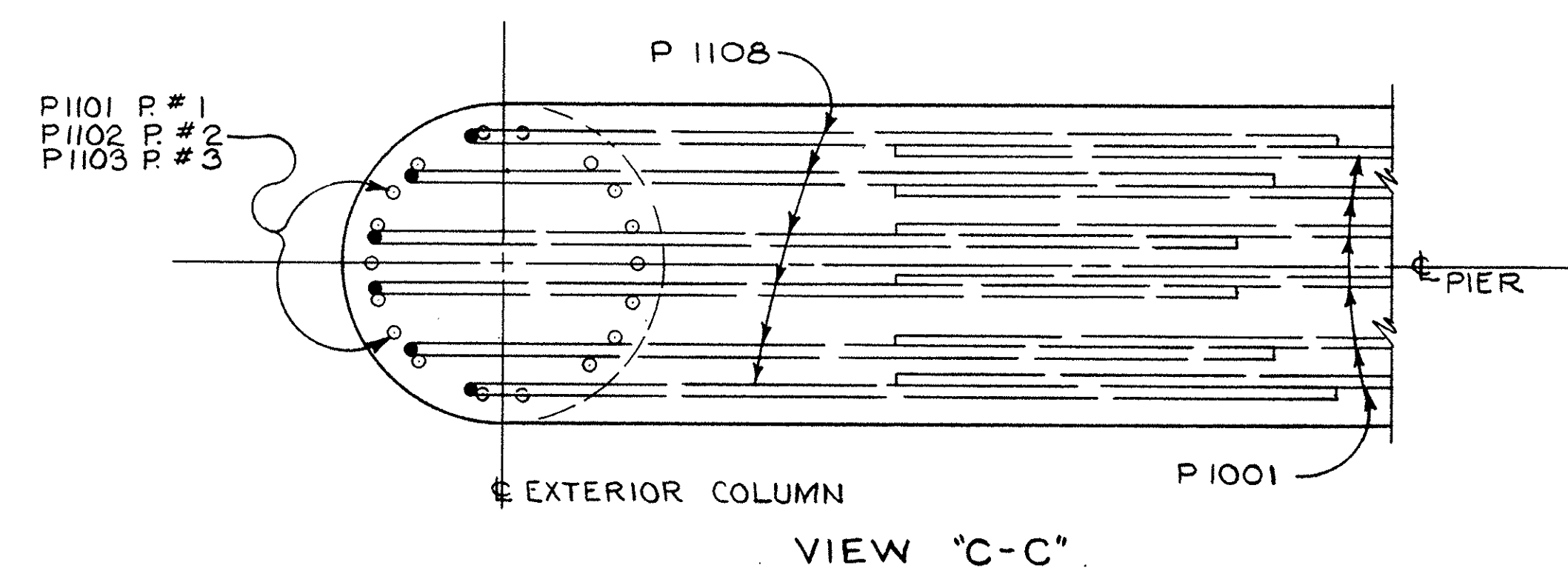
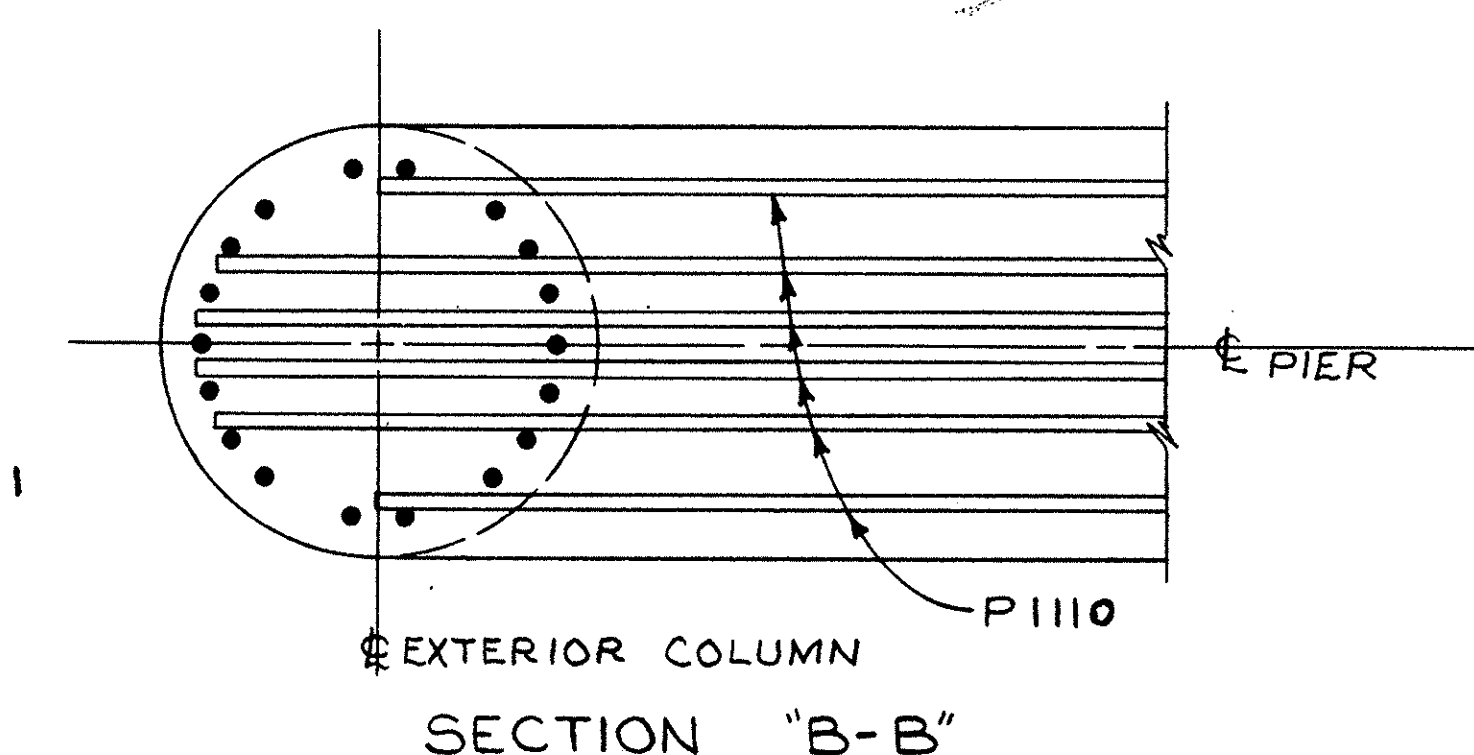
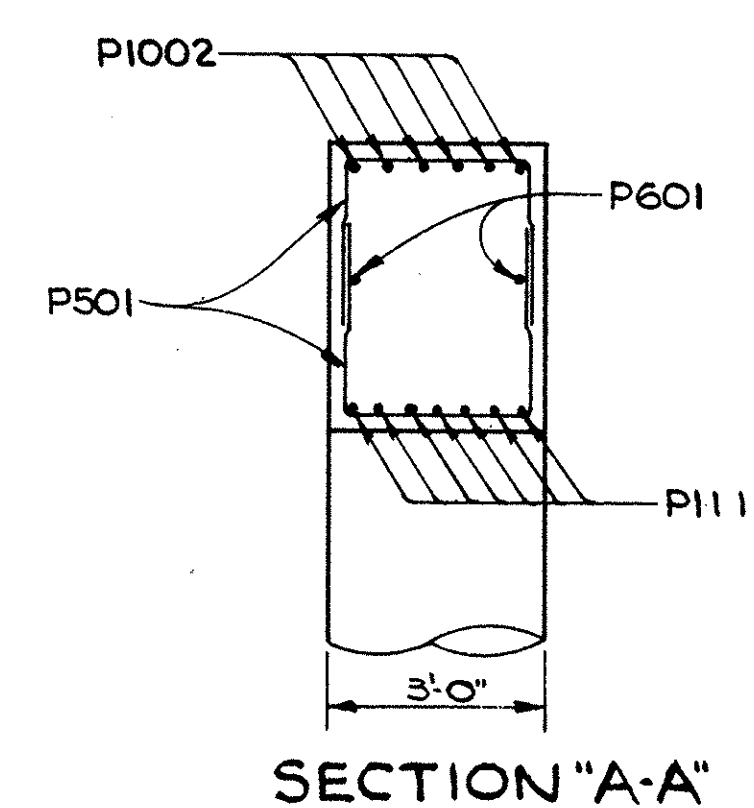
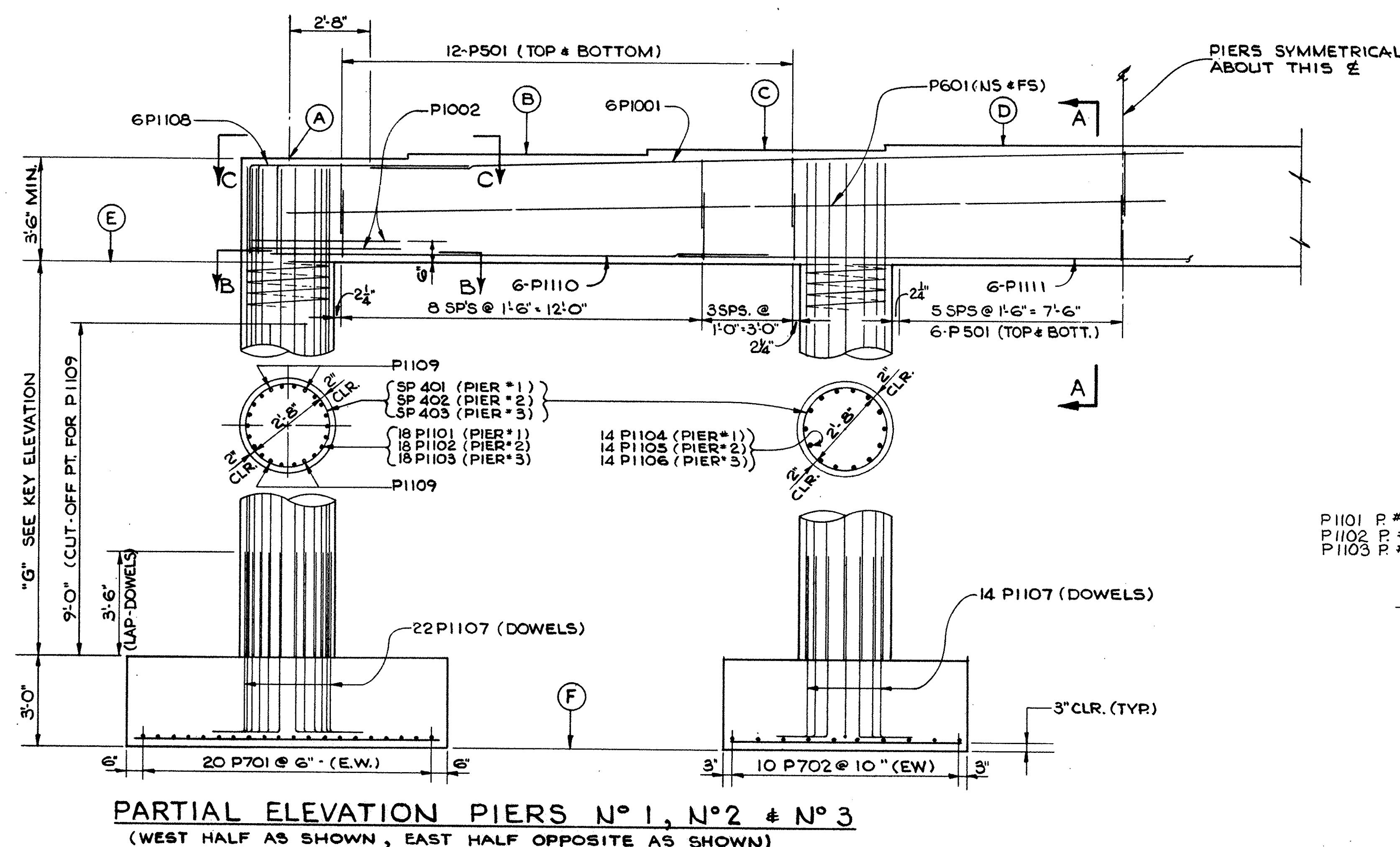
FED. RD.	STATE	PROJECT	
	OHIO		

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MAH 422-2.30



	A	B	C	D	E	F	G
PIER #1 WEST HALF	944.71	944.83	944.96	945.07	941.21	921.89	16'-3 3/8"
PIER #1 EAST HALF	944.71	944.83	944.96	945.07	941.21	921.89	16'-3 3/8"
PIER #2 WEST HALF	945.54	945.66	945.79	945.90	942.04	923.50	15'-6 1/2"
PIER #2 EAST HALF	945.54	945.66	945.79	945.90	942.04	923.50	15'-6 1/2"
PIER #3 WEST HALF	946.16	946.28	946.41	946.52	942.66	921.89	17'-9 1/4"
PIER #3 EAST HALF	946.16	946.28	946.41	946.52	942.66	921.89	17'-9 1/4"



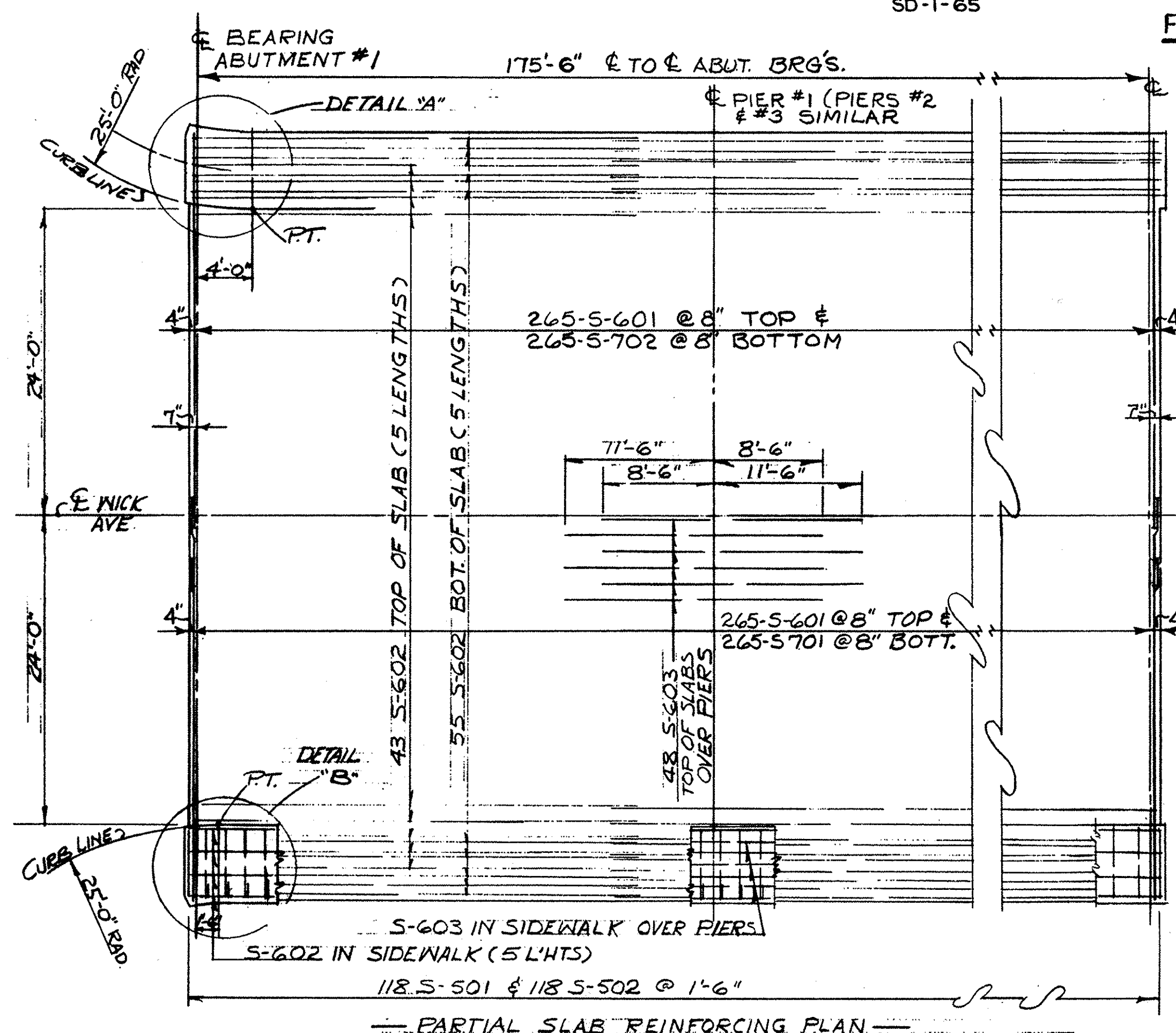
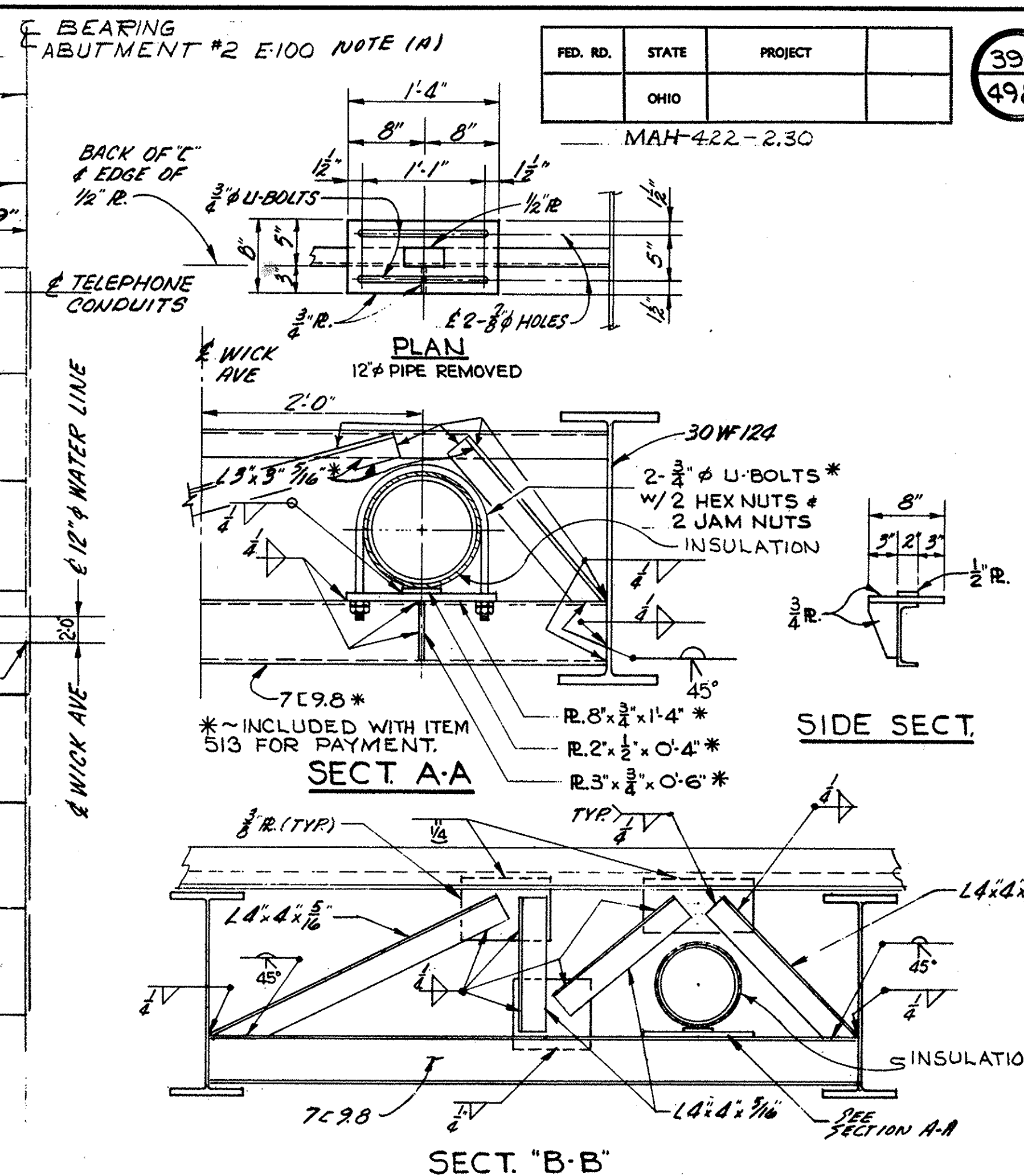
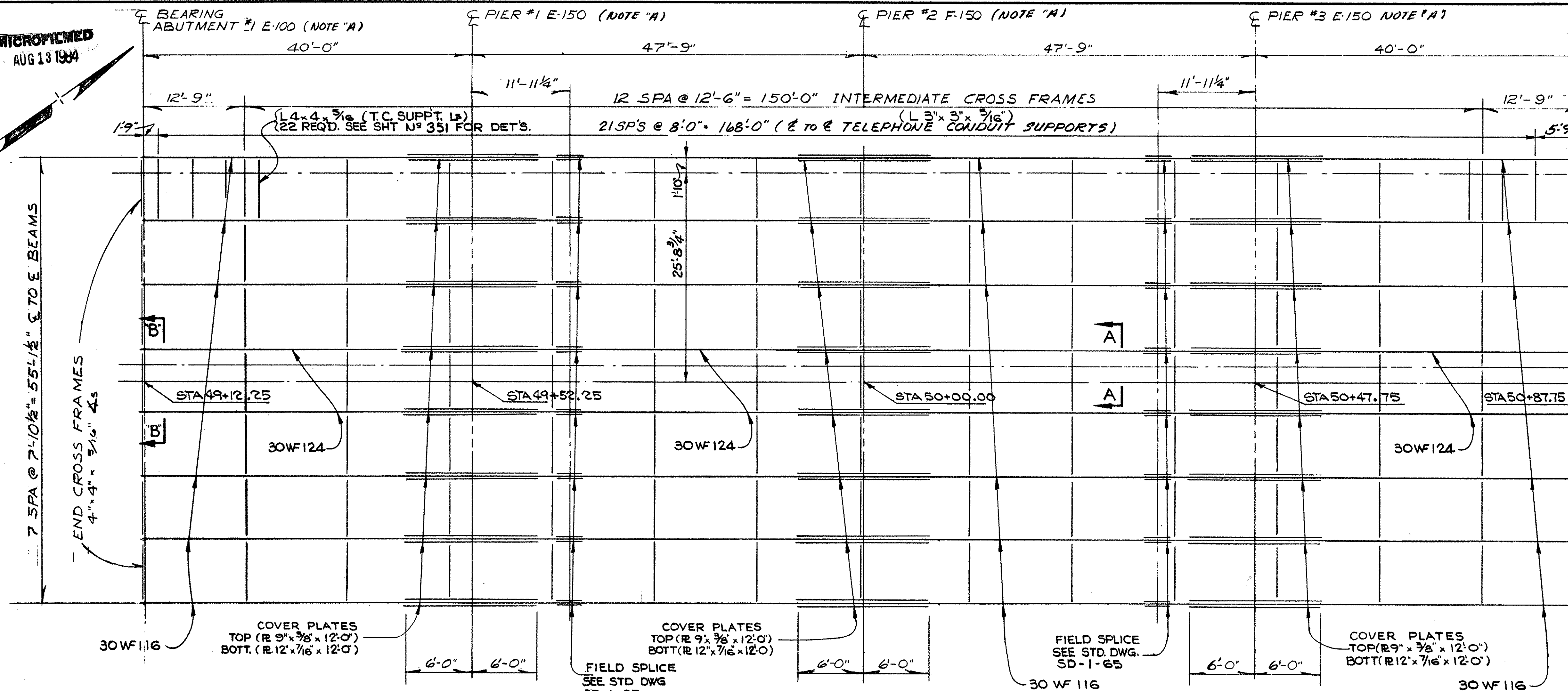
STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES						
BEISWENGER, HOCH & ASSOCIATES AND ROBERT J. SCHOMER 4 YOUNGSTOWN ROAD YOUNGSTOWN 14, OHIO						
PIERS						
BRIDGE NO MAH-422-0313						
UNDER WICK AVENUE						
YOUNGSTOWN MAHONING COUNTY						
STA 107+62.61						
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
NPW	ALH		clo	RCH	7-8-66	

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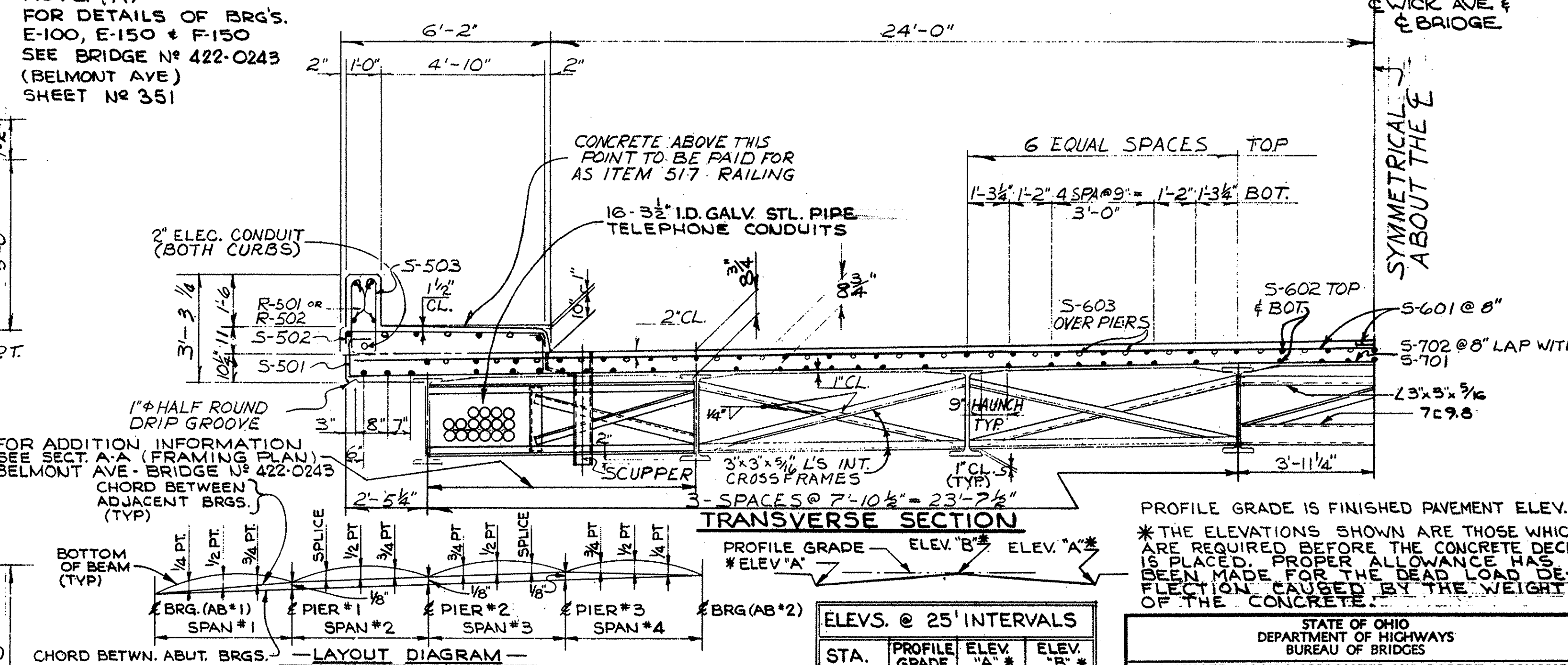
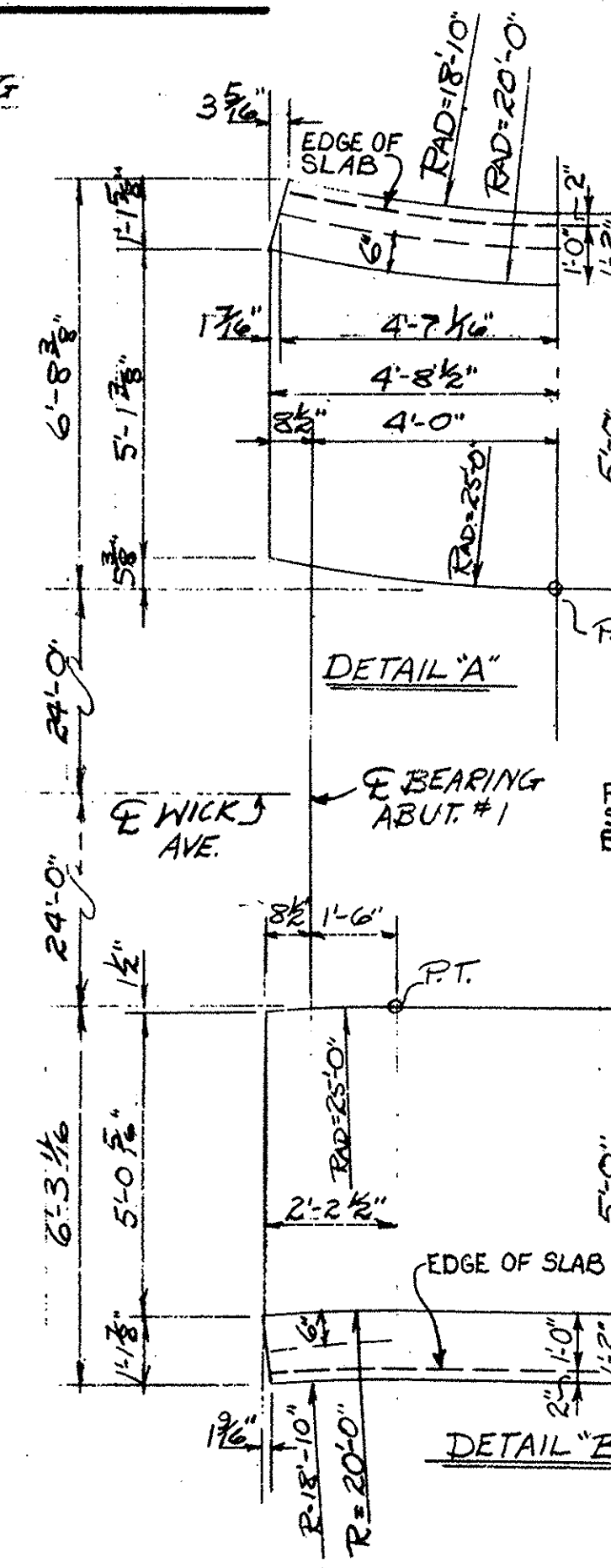
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MAH-422-2.3C



FRAMING PLAN

NOTE. (A)
FOR DETAILS OF BRG'S.
E-100, E-150 & F-150
SEE BRIDGE No 422-0243
(BELMONT AVE)
SHEET No 351



DEFLECTION & CAMBER						
SPAN	SPANS N° 1 & 4			SPANS N° 2 & 3		
LOCATION	¼ PT.	½ PT.	¾ PT.	SPLICE POINT	½ PT.	¾ PT.
DEFLECTION DUE TO WEIGHT OF STEEL	.018"	.022"	.010"	.007"	.015"	.007"
DEFLECTION DUE TO REMAINING DEAD LOAD	.138"	.160"	.073"	.051"	.107"	.048"
ADJUSTMENT FOR VERTICAL CURVE	—	—	—	—	—	—
REQUIRED SHOP CAMBER	⅛"	⅜"	¼"	⅛"	⅛"	⅛"

ELEV. @ 25' INTERVALS			
STA.	PROFILE GRADE	ELEV. "A" *	ELEV. "B" *
49+25	948.28	947.92	948.2
49+50	948.66	948.29	948.6
49+75	949.04	948.68	949.0
50+00	949.42	949.05	949.4
50+25	949.80	949.44	949.8
50+50	950.18	949.81	950.18
50+75	950.56	950.20	950.5

PROFILE GRADE IS FINISHED PAVEMENT ELEV.
* THE ELEVATIONS SHOWN ARE THOSE WHICH
ARE REQUIRED BEFORE THE CONCRETE DECK
IS PLACED. TO DETERMINE ADVANCE ELEVATIONS
ON THE PROFILE GRADE, ADD 1.5 INCHES TO THE
ELEVATION SHOWN ON THE PROFILE GRADE. THE WEIGHT

STATE OF OHIO
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4 YOUNGSTOWN ROAD YOUNGSTOWN 14, OHIO

FRAMING PLAN
BRIDGE NO MAH-422-0313
UNDER WICK AVENUE
YOUNGSTOWN MAHONING COUNTY
STA 107+68.61

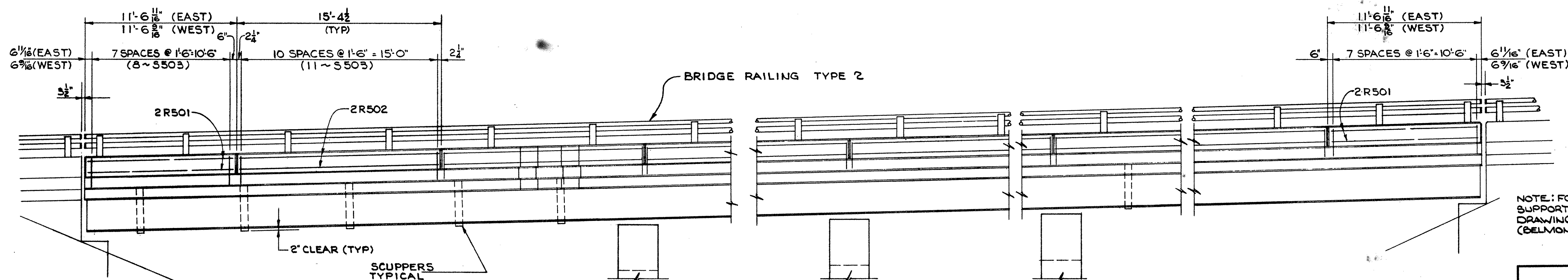
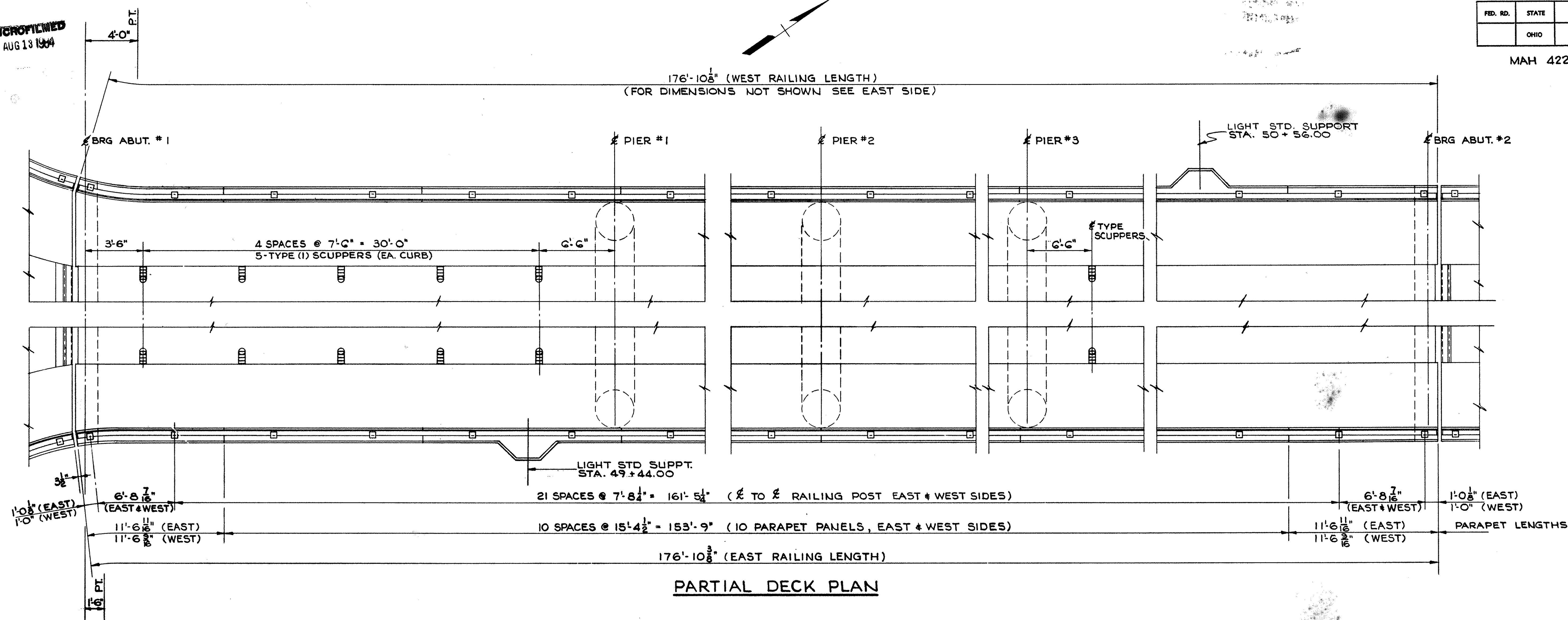
DESIGNED NPW	DRAWN NPW	TRACED	CHECKED ces	REVIEWED NPW	DATE 9-8-66	REVISED
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MICROFILMED
AUG 13 1994

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MAH 422-230



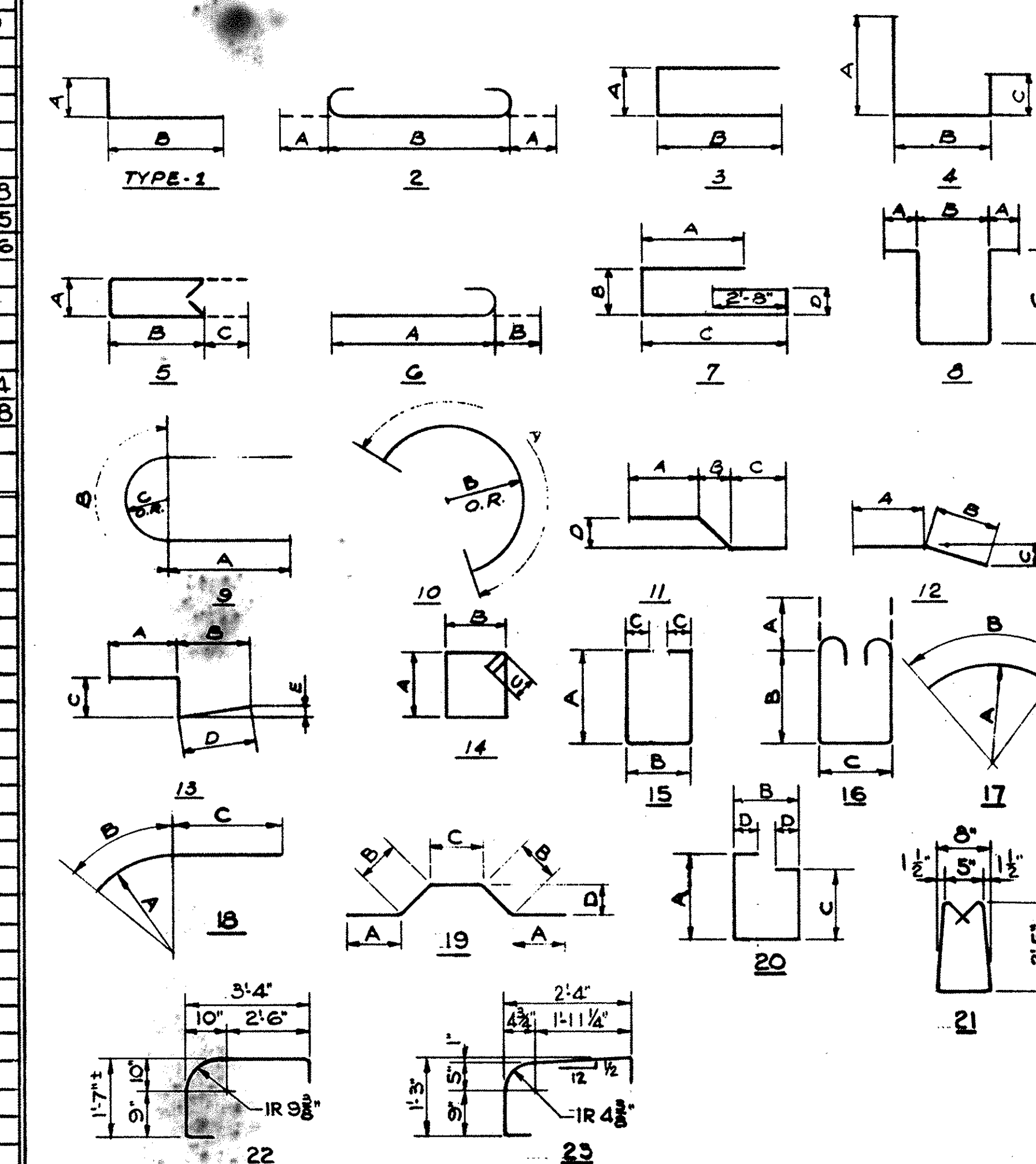
NOTE: FOR DETAILS OF LIGHT STANDARD SUPPORT SEE RAILING AND DRAINAGE DRAWING OF BR. NO. MAH-422-0243 (BELMONT AVE)

ELEVATION

STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES					
BEISWENGER, HOCH & ASSOCIATES AND ROBERT J. SCHOMER CONSULTING ENGINEERS 4 YOUNGSTOWN ROAD YOUNGSTOWN 14, OHIO					
RAILING & DRAINAGE DET'S.					
BRIDGE NO. MAH 422-0313 UNDER WICK AVENUE YOUNGSTOWN MAHONING COUNTY					
STA 107 + 68.61					
DESIGNED NPW	DRAWN ALH	TRACED	CHECKED cls	REVIEWED JSH	DATE 9-8-66
REVISED					

ABUTMENT N ^o 1										CONTINUATION ABUTMENT N ^o 2										SLAB												
MARK	NO.	LENGTH	TYPE	DIMENSIONS				SERIES INCR.	WEIGHT LBS.	MARK	NO.	LENGTH	TYPE	DIMENSIONS				SERIES INCR.	WEIGHT LBS.	MARK	NO.	LENGTH	TYPE	DIMENSIONS				SERIES INCR.	WEIGHT LBS.			
	REQ'D			A	B	C	D				REQ'D			A	B	C	D				REQ'D			A	B	C	D					
A501	19	29'-6"	ST						585	A571	1	11'-1"	11	3'-7"	4'-0"	3'-6"	1'-10"		12	S501	236	8'-10"	15	1'-3"	5'-6"	6"				2174		
A502	12	4'-7"	1	6"	4'-2 1/2"				57	A572	1	14'-2"	11	6'-6"	3'-9"	3'-11"	1'-6"		15	S502	236	6'-5"	3	5'-8"	6"					1,579		
A503	24	6'-1"	5	8"	2'-5"	5"			152	A573	2	7'-2"	20	3'-1"	1'-2"	2'-5"	6"		15	S503	252	6'-1"	5	8"	2'-5"	5"				1,599		
A504	6	6'-2"	20	2'-7"	1'-2"	1'-11"	6"		39	A574	40	7'-10"	3	3'-5"	2'-4"				327													
A505	19	29'-8"	ST						588	A575	40	8'-3"	1	8"	7'-8"				344	S521	4	10'-8"	19	2'-0"	2'-7"	1'-6"	1'-10 1/2"			45		
A506	4	10'-9"	17	19'-5"	10'-9"				45	A576	4	5'-8"	ST						24													
A507	1	13'-9"	18	19'-5"	10'-9"	3'-0"			14	A577	1	11'-3"	11	3'-6"	3'-9"	4'-0"	1'-6"		12													
SERIES OF 2 SETS OF 3 BARS-6		8'-2"	20	3'-7 1/2"	1'-2"	2'-11 1/2"	6"	9"	46	A578	2	12'-2"	14	3'-6"	2'-6"	4"			26													
A508	4	6'-8"	17	19'-5"	9'-9"				41											S601	530	31'-0"	ST							24,678		
A509	4	9'-9"	17	20'-5"	9'-9"				41											S602	530	36'-9"	ST							29,255		
A510	5	16'-11"	17	19'-5"	16'-11"				88											S603	144	20'-0"	ST							4,326		
A511	1	11'-10"	17	19'-5"	11'-10"				12																							
A512	10	6'-0"	ST						63	A651	8	31'-7"	ST						380	S621	20	6'-0"	ST							180		
A513	1	11'-4"	17	20'-5"	11'-4"				12	A652	48	13'-2"	7	3'-8"	1'-5"	5'-0"	11"		950	S622	4	9'-8"	14	2'-10"	2'-0"	4"				59		
A514	4	4'-0"	12	2'-0"	2'-0"	1'-11 1/2"			17	A653	10	21'-0"	3	1'-2"	10'-0"				315													
A515	1	11'-8"	18	19'-5"	9'-8"	2'-0"			12	A654	40	12'-9"	1	5'-3"	7'-8"				766	S701	265	27'-0"	ST							14,624		
A516	4	8'-8"	17	19'-5"	8'-8"				36	A655	10	15'-6"	7	5'-2"	1'-5"	5'-10"	11"		233	S702	265	34'-10"	ST							18,868		
A517	5	14'-7"	17	19'-5"	14'-7"				76	A656	4	8'-3"	1	7 1/2"	7'-9"				50													
A518	3	13'-7"	17	20'-5"	13'-7"				43																							
A519	1	9'-8"	17	19'-5"	9'-8"				10																							
A520	3	15'-11"	17	20'-5"	15'-11"				50																							
A521	1	14'-8"	11	7'-5"	3'-8"	3'-8"	11"		15																							
A522	1	13'-1"	11	5'-8"	3'-8"	3'-8"	11"		13	TOTAL ABUTMENT N ^o 2=5,393 LBS.																						
A523	1	9'-2"	17	20'-5"	9'-2"				10	PIERS N ^o 1, 2, 3																						
A524	10	3'-11"	1	6"	3'-6 1/2"				41	P501	210	7'-7"	3	2'-8"	2'-7"				1661	R501	16	11'-2"	ST									
A525	4	4'-0"	12	2'-0"	2'-0"	1'-11"			17											R502	80	15'-0"	ST									
A526	1	17'-0"	11	3'-4"	4'-6"	8'-11"	1'-0"		18											R503	2	16'-5"	17	19'-3"	16'-5"							
A527	40	7'-10"	3	3'-5"	2'-4"				327											R504	2	16'-10"	17	19'-9"	16'-10"							
A528	40	8'-3"	1	8"	7'-8"				344											R505	2	13'-10"	17	19'-3"	13'-10"							
A529	4	5'-8"	ST						24	P601	12	29'-2"	ST							R506	2	14'-3"	17	19'-9"	14'-3"							
A530	1	18'-11"	11	3'-4"	4'-6"	7'-10"	1'-0"		16											R507	2	13'-4"	18	19'-3"	6'-0"	7'-4"						
A531	1	8'-9"	17	20'-5"	8'-9"				9											R508	2	13'-6"	18	19'-9"	6'-2"	7'-4"						
A532	1	6'-9"	17	20'-5"	6'-9"				7	P701	240	10'-0"	ST						4906	R509	2	13'-6"	18	19'-3"	2'-4"	11'-2"						
A533	4	7'-8"	17	20'-5"	7'-8"				32	P702	120	7'-6"	ST						1840	R510	2	13'-7"	18	19'-9"	2'-5"	11'-2"						
A534	2	12'-2"	14	3'-6"	2'-6"	4"			26											R511	12	6'-1"	21									
																				R512	8	5'-5"	22									
																				R513	8	4'-2"	23									
A601	48	13'-2"	7	3'-8"	1'-5"	5'-0"	11"		946	P1001	36	26'-9"	ST						4144	R521	4	10'-8"	19	2'-0"	2'-7"	1'-6"	1'-10 1/2"					
A602	10	15'-6"	7	5'-2"	1'-5"	5'-10"	11"		234	P1002	12	10'-0"	9	3'-2"	3'-8"	1'-1 1/2"			516	R522	4	7'-10"	19	2'-0"	8"	2'-6"	6 1/2"					
A603	4	8'-3"	1	7 1/2"	7'-9"				50																							
A604	40	12'-9"	1	5'-3"	7'-8"				766																							
A605	8	32'-0"	ST						385																							
A606	12	20'-9"	3	1'-2"	9'-11"				374	P1101	36	19'-6"	ST						3730	RE-101	0	5'-3"										
										P1102	36	18'-9"	ST						3586	RE-501	1	5'-6"										
										P1103	36	20'-11"	ST						4001	RE-601	4	6'-0"										
										P1104	14	19'-9"	ST						1469	RE-701	2	6'-3"										
										P1105	14	19'-0"	ST						1413	RE-801	0	6'-6"										
										P1106	14	21'-2"	ST						1575	RE-901	0	6'-10"										
										P1107	216	7'-0"	1	1'-0"	6'-3"				8033	RE-1001	1	7'-3"										
										P1108	36	11'-0"	1	3'-2"	8'-1"				2104	RE-1101	2	7'-9"										
										P1109	24	9'-0"	ST						1148													
										P1110	36	17'-8"	ST						3379													
										P1111	18	29'-6"	ST						2821													
TOTAL ABUTMENT N ^o 1=5,640 LBS.										TOTAL PIERS N ^o 1, 2 & 3=50,498 LBS.										TOTAL SLAB=97,699 LBS.												
ABUTMENT N ^o 2										SPIRAL REINFORCING										RAILING												
A551	38	29'-6"	ST						1169																							
A552	6	3'-11"	1	6"	3'-6 1/2"				23																							
A553	8	3'-11"	1	2'-0"	2'-0"				33																							
A554	10	5'-0"	ST						52																							
A555	6	6'-2"	20	2'-7"	1'-2"	1'-11"	6"		39																							
A556	8	8'-0"	ST						67																							
A557	1	8'-10"	ST						9																							
A558	5	13'-11"	18	19'-5"	6'-7"	7'-4"			73																							
A559	3	11'-3"	18	20'-5"	6'-11"	4'-4"			35																							
A560	2	5'-3"	ST						11																							
A561	2	10'-10"	ST						23																							
A562	22	6'-1"	5	8"	2'-5"	5"			140																							
A563	10	4'-7"	1	6"	4'-2 1/2"				48																							
A564	2	8'-8"	20	3'-9"	1'-2"	3'-11"	6"		18																							
A565	8																															

MICROFILMED
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AUG 13 1984



REINFORCING NOTES

THE LENGTH SHOWN IN THE STEEL SCHEDULE FOR THE SPIRAL BARS IS THE DISTANCE FROM THE TOP OF THE FOOTING TO THE BOTTOM OF THE PIER CAP. THE NUMBER OF TURNS SHOWN IN THE STEEL SCHEDULE FOR SPIRAL BARS IS THE LENGTH DIVIDED BY THE PITCH PLUS THREE TURNS (TOTAL NUMBER OF CLOSED COILS) EXPRESSED AS THE NEAREST WHOLE NUMBER. SPIRAL REINFORCING BARS SHALL NOT HAVE DEFORMATIONS, BUT SHALL IN OTHER RESPECTS CONFORM TO ITEM 5-4. ONE AND ONE HALF CLOSED COILS SHALL BE PROVIDED AT THE ENDS OF EACH SPIRAL UNIT. FOUR (4) STEEL CHANNEL, TEE OR ANGLE SPACERS WEIGHING APPROX. 0.60 LBS. PER LINEAL FT. OF SPACERS SHALL BE PROVIDED FOR EACH SPIRAL UNIT. THEY SHALL BE EQUALLY SPACED ALONG THE PERIPHERY OF EACH COIL. THE NUMBER OF POUNDS OF THESE SPACERS, BASED ON 0.60 LBS. PER LINEAL FT. WILL BE PAID FOR AS REINFORCING STEEL AND IS INCLUDED IN THE TABULATED QUANTITY OF SPIRAL BARS.

BAR SIZE IS INDICATED IN THE BAR MARK. THE FIRST DIGIT WHERE THREE DIGITS ARE USED AND THE FIRST TWO DIGITS WHERE FOUR ARE USED INDICATE THE BAR SIZE NUMBER FOR EXAMPLE A-601 IS A NO. 6 SIZE BAR AND P-1001 IS A NO. 10 SIZE BAR.

RAILING REINFORCEMENT BARS WILL BE INCLUDED AS PART OF ITEM 517 FOR PAYMENT.

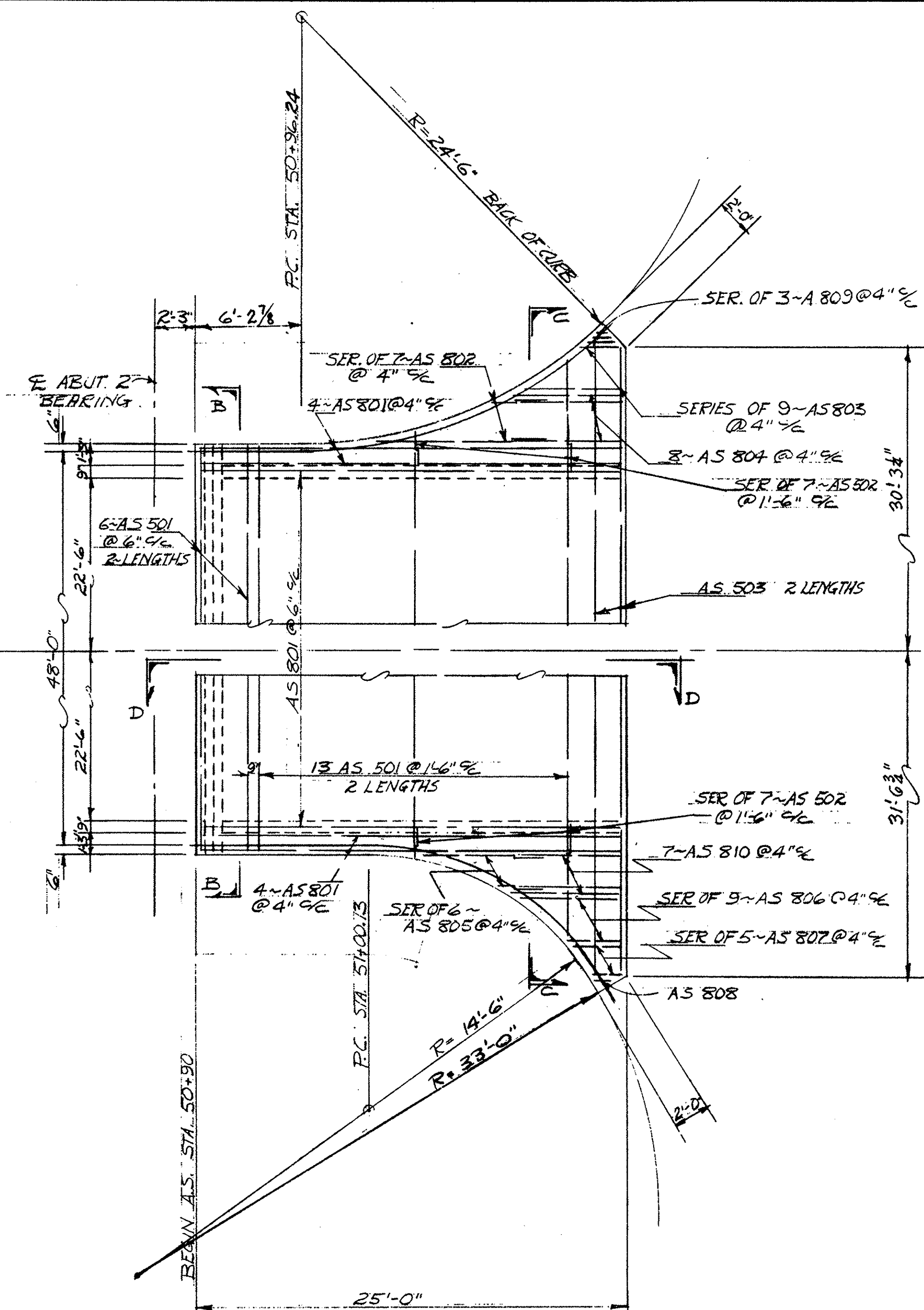
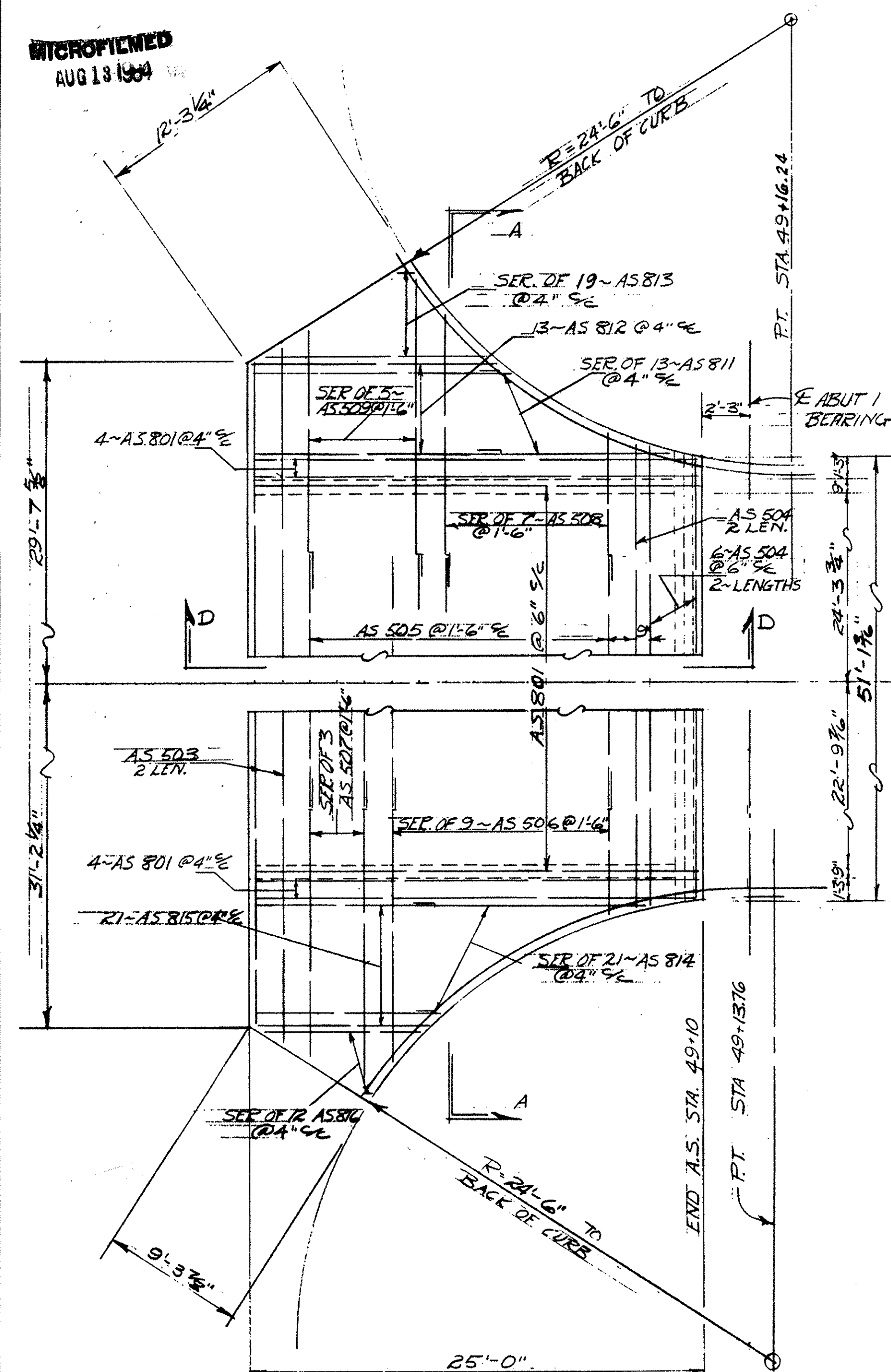
STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES					
BEISWENGER, HOCH & ASSOCIATES AND ROBERT J. SCHOMER CONSULTING ENGINEERS 4 YOUNGSTOWN ROAD YOUNGSTOWN 14, OHIO					
REINFORCING SCHEDULE					
BRIDGE N ^o MAH 422-0313					
UNDER WICK AVE					
YOUNGSTOWN MAHONING COUNTY					
STA. 107 + 68.61					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
NPW	ALH		Ua	RDH	2-8-66

MICROFILMED
AUG 13 1984

FED. RD.	STATE	PROJECT	
	OHIO		

MAH-422-230

395
498



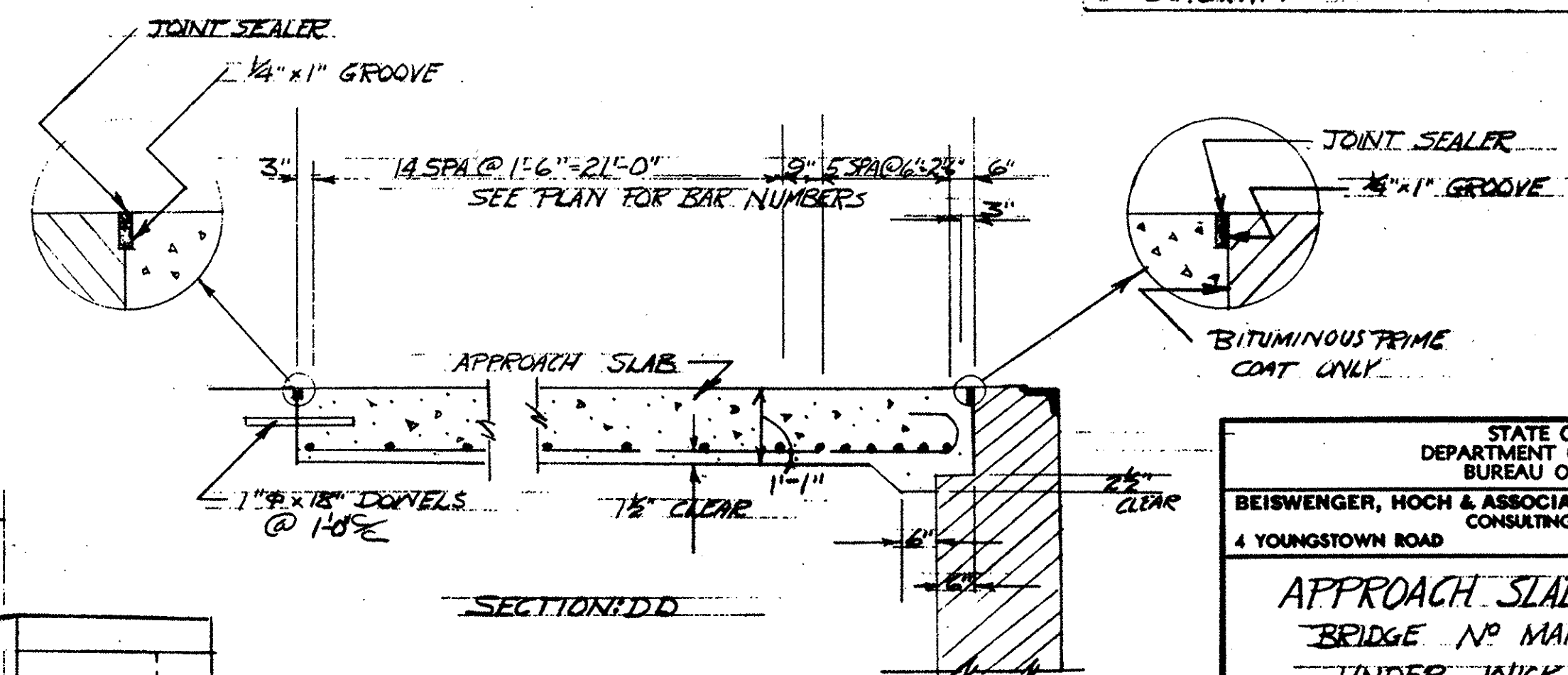
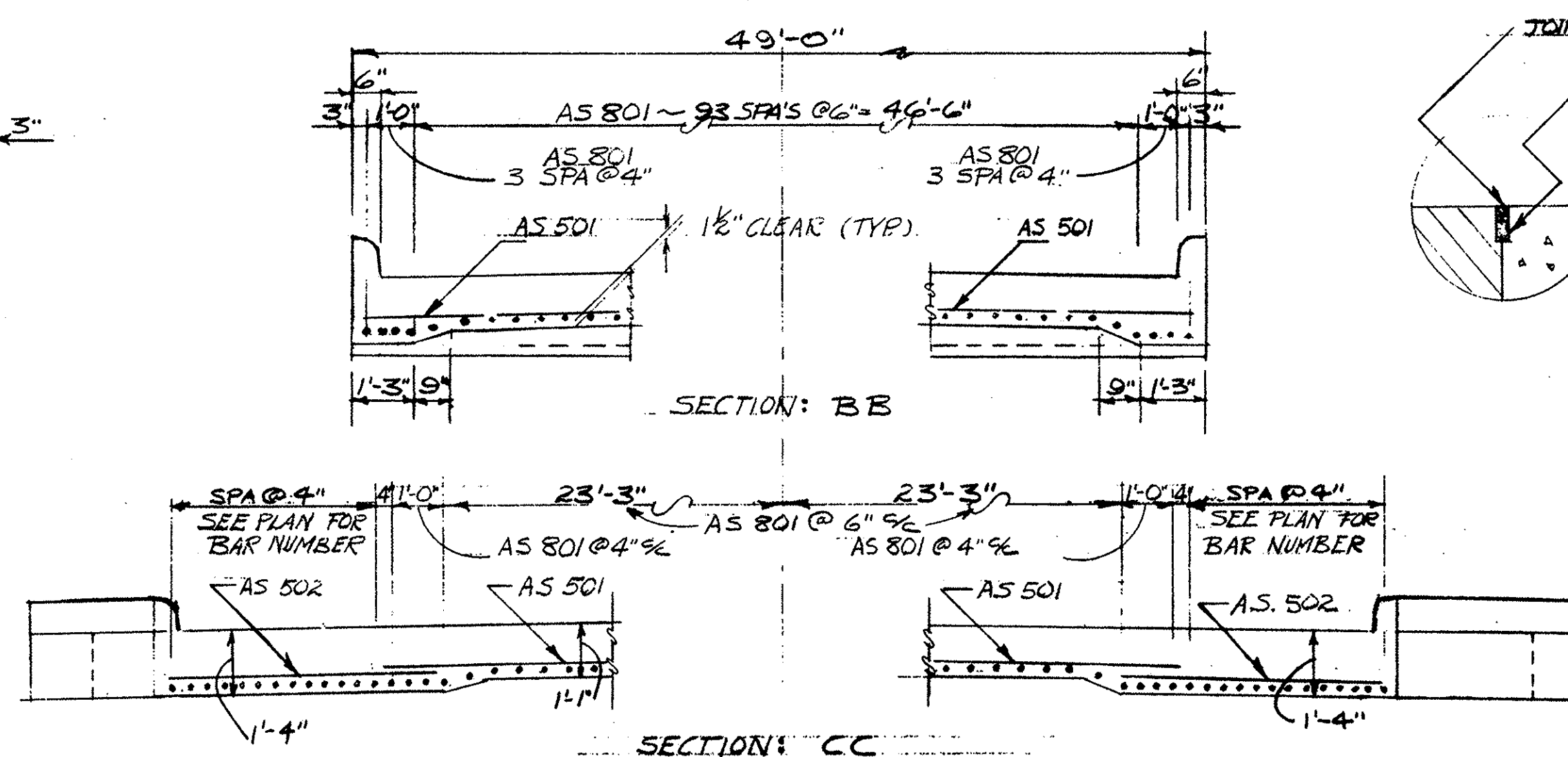
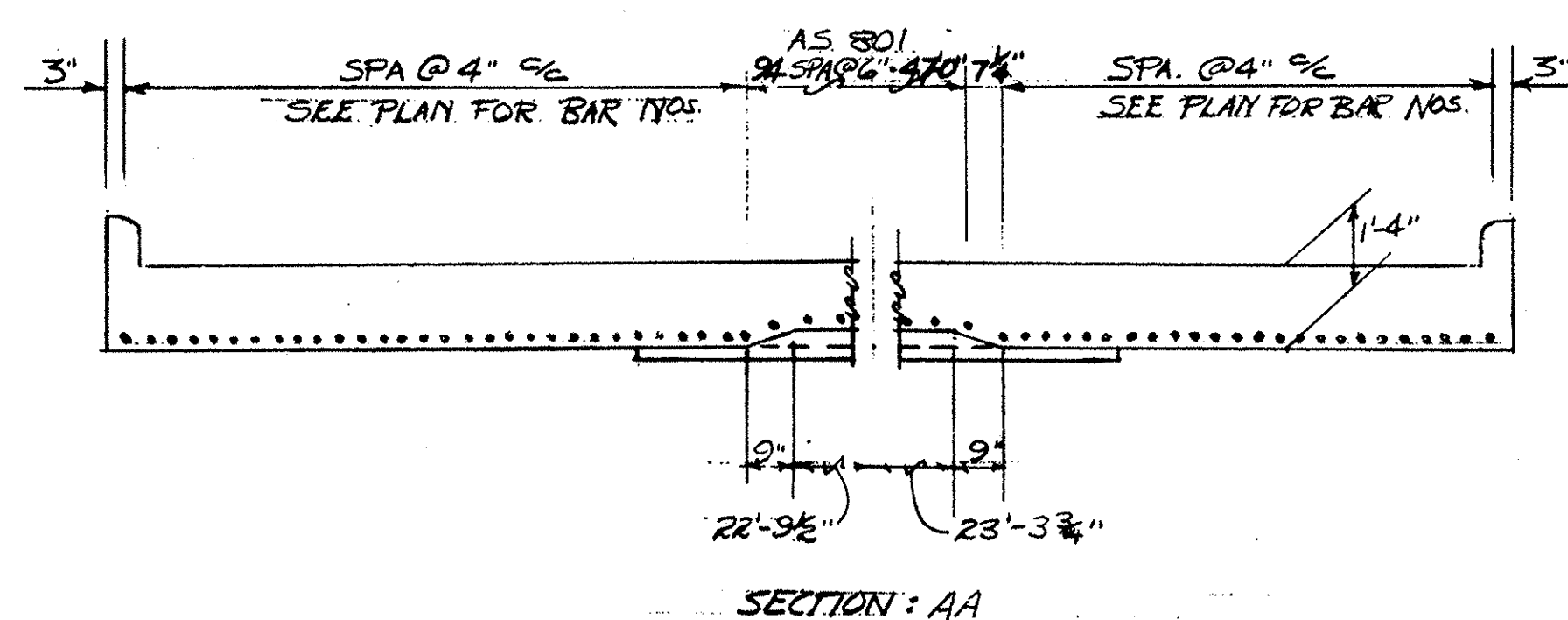
BAR SIZE IS INDICATED IN THE BAR MARK. THE FIRST DIGIT INDICATES THE BAR SIZE NUMBER. FOR EXAMPLE, A5801 IS A NO 8 SIZE BAR.

CONCRETE SHALL BE CLASS "C"

PREFORMED EXPANSION JOINT FILLER & CONST.
JOINTS ARE INCLUDED FOR PAYMENT IN THE UNIT
PRICE FOR APPROACH SLABS

ITEM 611 REINFORCED CONCRETE APPROACH
SLABS 314 SQ. YDS. (SHOWN WITH ROADWAY)

REINFORCING STEEL LIST					
MARK	NUMBER	LENGTH	SHP.	DIMENSION SERIES "A"	INT.
AS 501	38	25'-2"	STR		
AS 502	2 SETS OF SER. OF 7 BARS	24'-10" TO 7'-4"	STR		9"
AS 503	4	32'-0"	STR		
AS 504	14	26'-6"	STR		
AS 505	12	30'-0"	STR		
AS 506	SER. OF 9 BARS	12'-6" TO 24'-0"	STR		1'-2"
AS 507	SER. OF 3 BARS	19'-3" TO 21'-3"	STR		7'-0"
AS 508	SER. OF 7 BARS	13'-7" TO 21'-7"	STR		7'-4"
AS 509	SER. OF 5 BARS	17'-10" TO 21'-10"			1'-0"
AS 801	202	25'-7"	B	24'-6"	
AS 802	SER. OF 7 BARS	4'-6" TO 11'-6"	STR		1'-2"
AS 803	SER. OF 9 BARS	1'-9" TO 6'-9"	STR		6"
AS 804	8	7'-3"	STR		
AS 805	SER. OF 6 BARS	4'-0" TO 8'-7"	STR		11
AS 806	SER. OF 9 BARS	3'-6" TO 6'-8"	STR		4"
AS 807	SER. OF 5 BARS	2'-3" TO 3'-3"	STR		3"
AS 808	1	1'-9"	STR		
AS 809	SER. OF 3 BARS	1'-9" TO 3'-9"	STR		1'-0"
AS 810	7	6'-9"	STR		
AS 811	SER. OF 13 BARS	4'-0" TO 12'-6"	STR		8 1/2"
AS 812	13	15'-0"	STR		
AS 813	SER. OF 19 BARS	1'-0" TO 14'-0"	STR		10"
AS 814	SER. OF 21 BARS	3'-5" TO 14'-3"	STR		6 1/2"
AS 815	21	10'-6"	STR		
AS 816	SER. OF 12 BARS	1'-2" TO 11'-4"	STR		10"
DOWELS	147	1" DIA. x 1'-6" LONG			

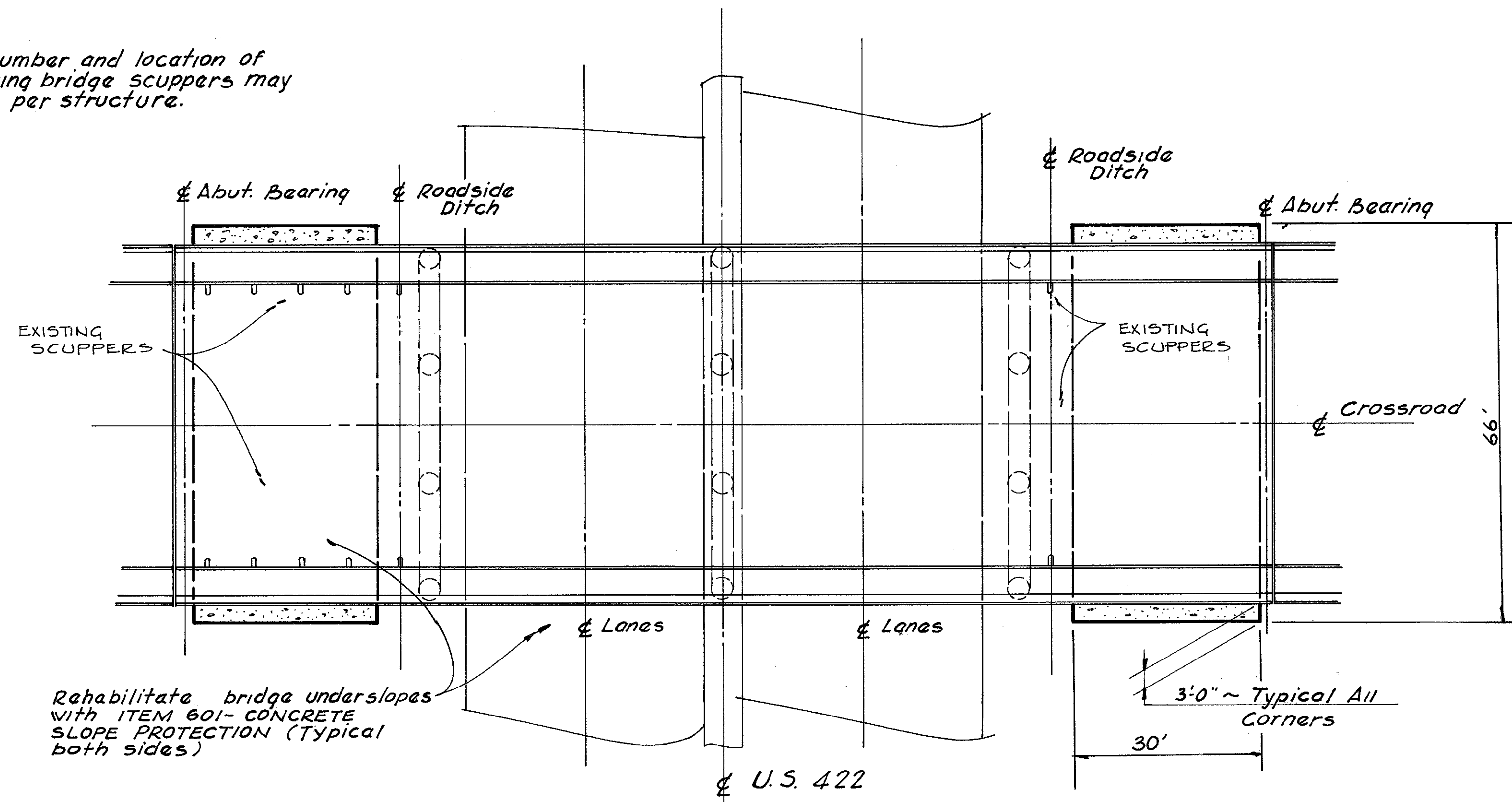


STATE OF OHIO
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4 YOUNGSTOWN ROAD YOUNGSTOWN 14, OHIO

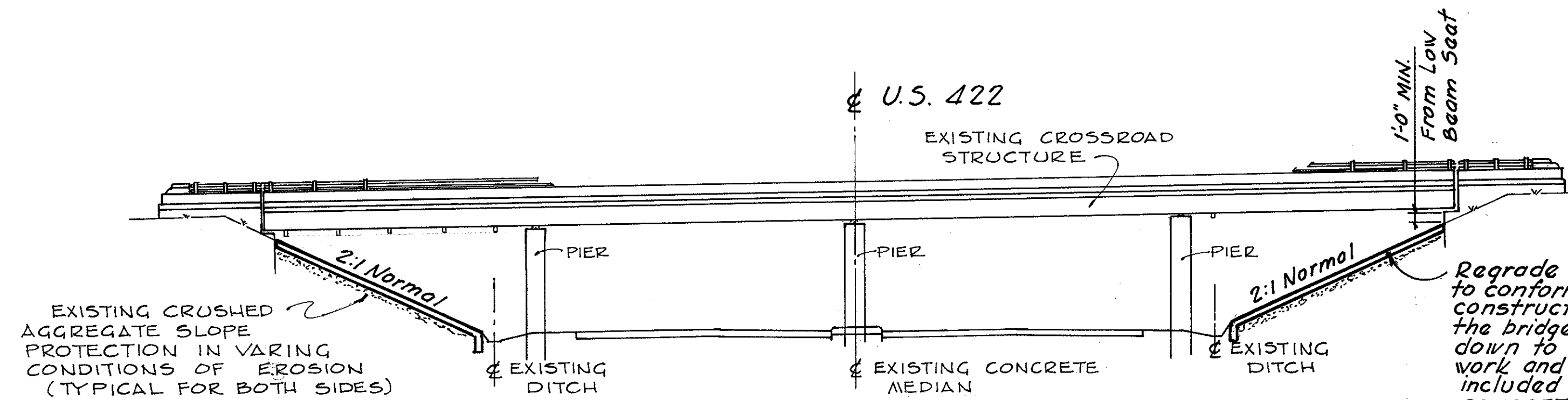
APPROACH SLAB DETAIL
BRIDGE NO MAH-422-0313
UNDER WICK AVENUE
YOUNGSTOWN MAHONING COUNTY
STA 107+68.81

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
NPW	NPW		CS	RDW	4-14-66	

NOTE: The number and location of existing bridge scuppers may vary per structure.



PLAN



ELEVATION

BRIDGE SPILL THROUGH REHABILITATION DETAILS

CROSSROAD STRUCTURE	ITEM 601 CONCRETE SLOPE PROTECTION
Covington Street MAH-422-0217	490 SQ. YD.
Wick Avenue MAH-422-0313	490 SQ. YD.
Total	980 SQ. YD.

Calculated	BY	DATE
CSK	7/07	
Checked	WS	8/07

REGION	STATE	PROJECT
5	OHIO	F-65(53)

CITY OF YOUNGSTOWN
MAH. 422-1.89
MAH. 62-19.57