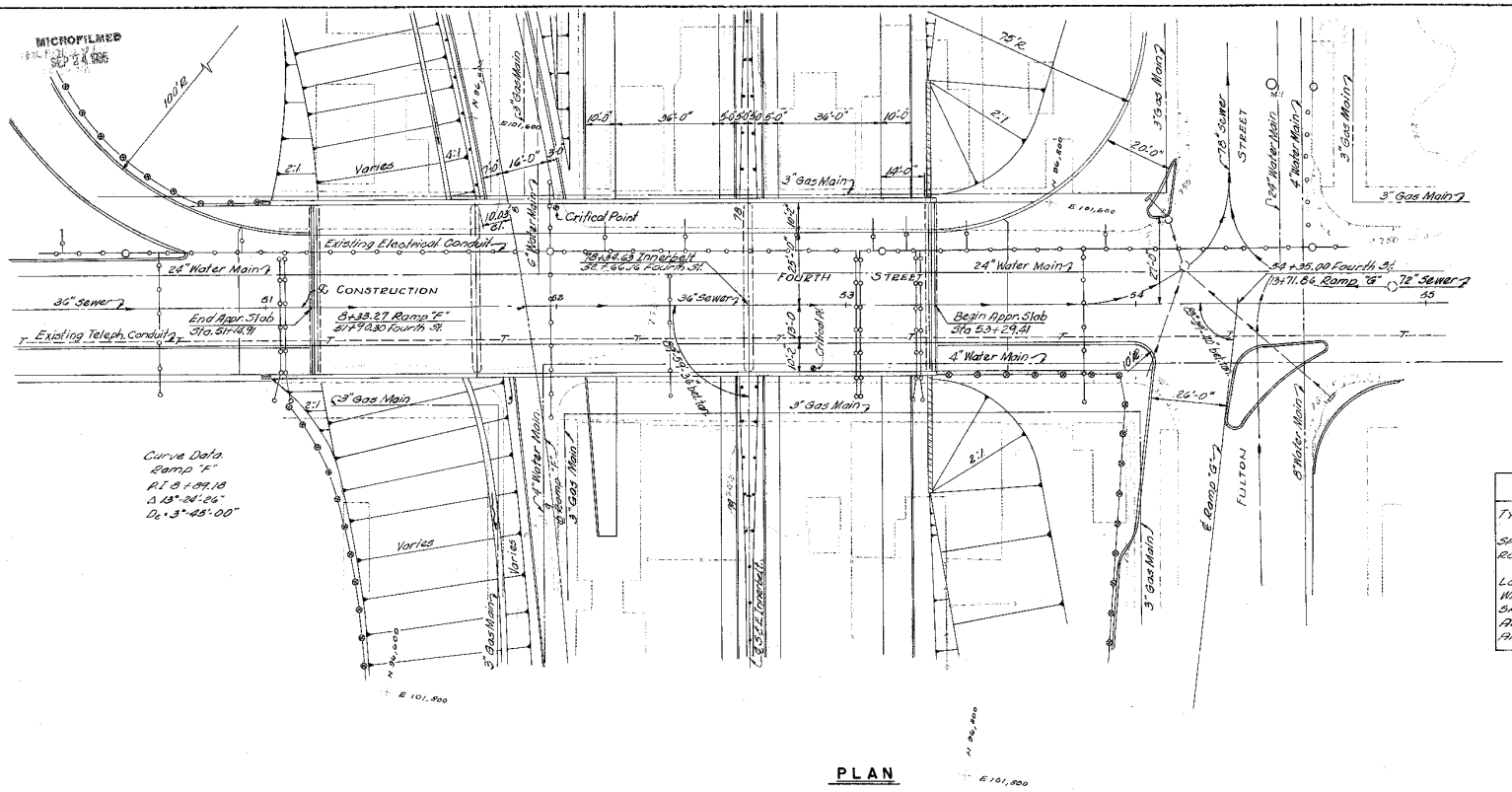
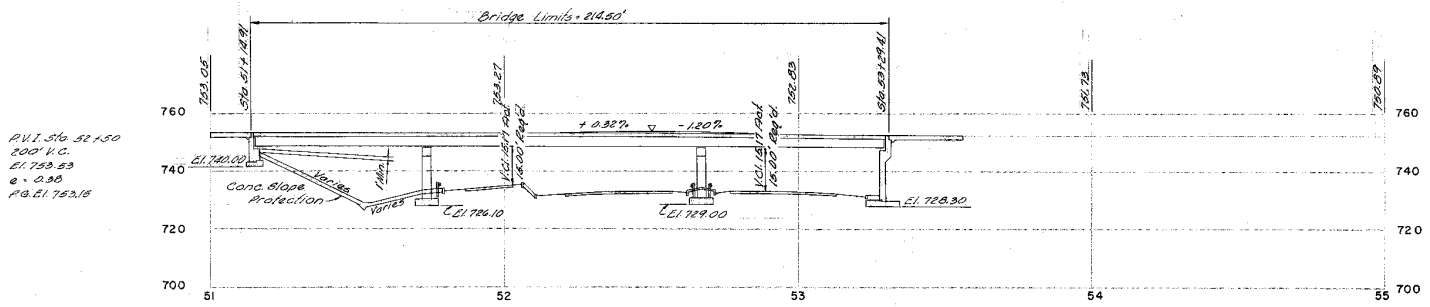
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

221
250

FRANKLIN COUNTY
FRA.-40-12.82



PLAN



P.V.I. Sta. 52+50
200' V.C.
El. 753.53
e = 0.88
P.G. El. 753.18

PROFILE

PROPOSED STRUCTURE

TYPE: Continuous steel beam with reinf. conc. deck and substructure.
SPANS: 55'-0"; 93'-0"; 61'-0" c/c brgs.
ROADWAY: 38'-0" f/f curbs with 10'-2" sidewalks and conc. parapets with aluminum railing
LOADING: C.F. 400 (1957)
WEARING SURFACE: 2½" asphaltic concrete
SKEW: None
ALIGNMENT: Tangent
APPROACH SLABS: 25'-0" long, see sheet 22a

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

SITE PLAN

BRIDGE NO. FRA.-40-1934
SOUTH INNERBELT UNDER FOURTH STREET

FRANKLIN COUNTY STA. 78+34.63

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
R.T.	R.T.	E.D.A.	R.R.M.	T.L.U.	5-8-62	

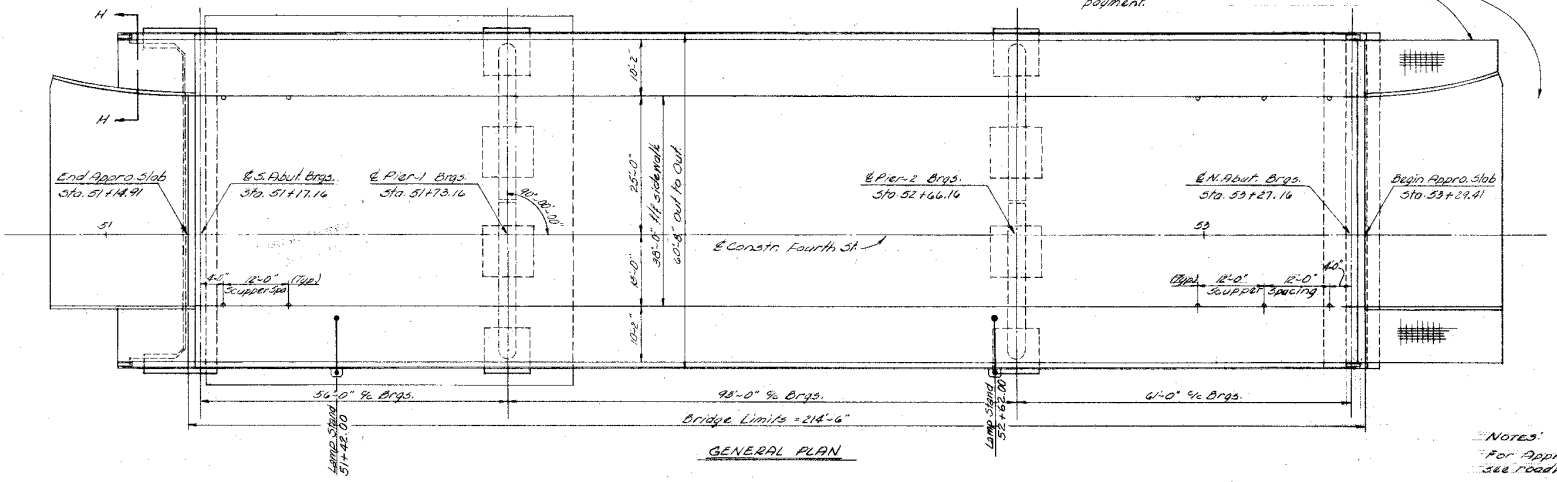
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

222
250

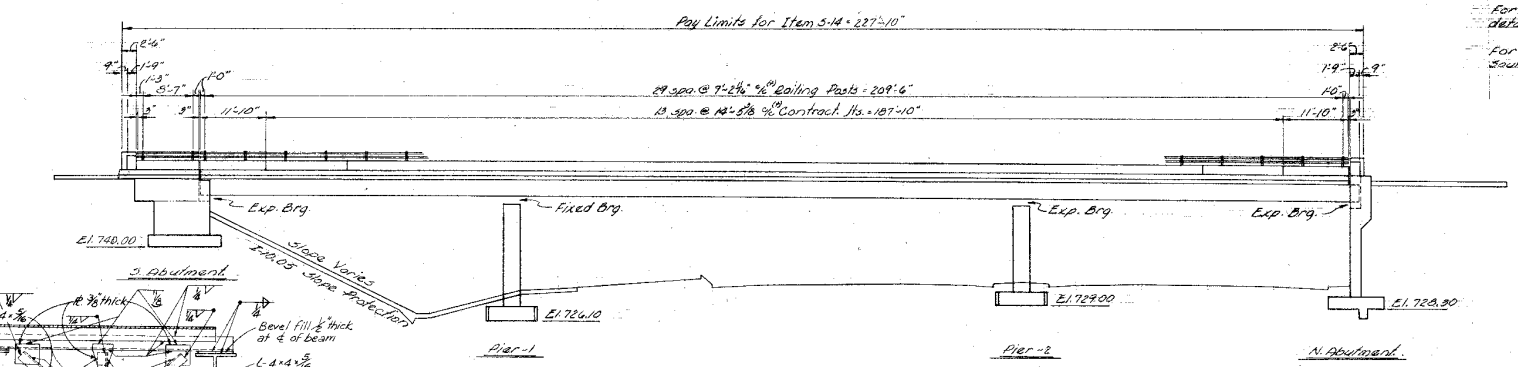
FRANKLIN COUNTY
FRA-40-12.82

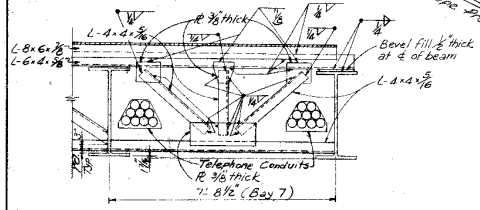
Approach Walk quantities are included with roadway quantities for payment.

6" thick approach walk, reinforced with 6x6-W2.9 wire fabric centered in the slab. Included with roadway quantities for payment.



NOTES:
For Approach Slab geometrics see roadway plans.
For additional Approach Slab details see AS-1-54
For Approach Walk details at South Abutment see sheet 225





END CROSS FRAME
AT BAY 7 ONLY

Note: The end cross frames at other bays shall be as shown on Standard drawing CSB-2-56

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

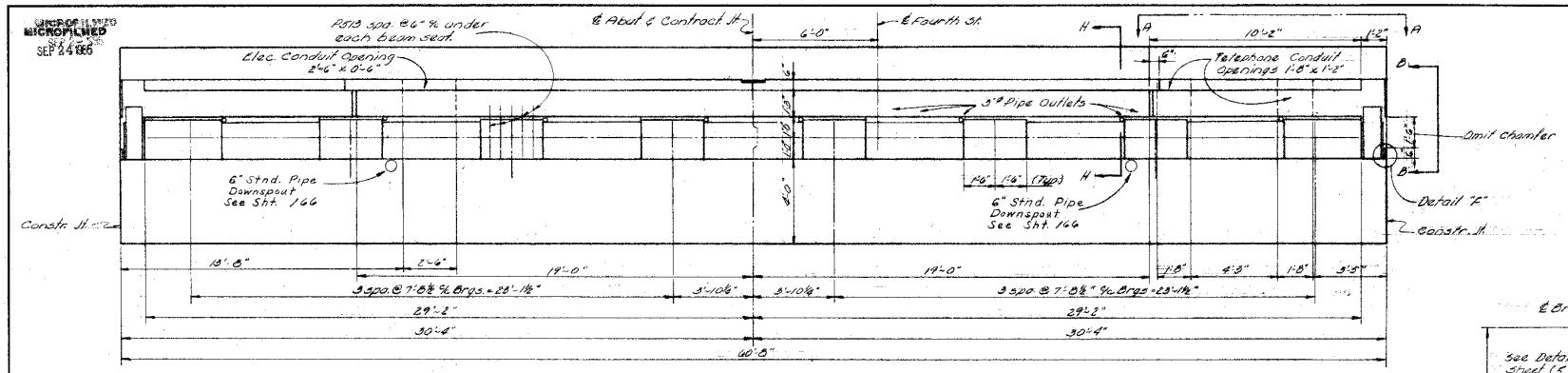
GENERAL PLAN & ELEVATION
BRIDGE No. FRA-40-1934
SOUTH INNERBELT UNDER FOURTH ST.
FRANKLIN COUNTY
STA. 78+34.63

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
R.T.	BDB		Pardo	TLV	5-8-62	

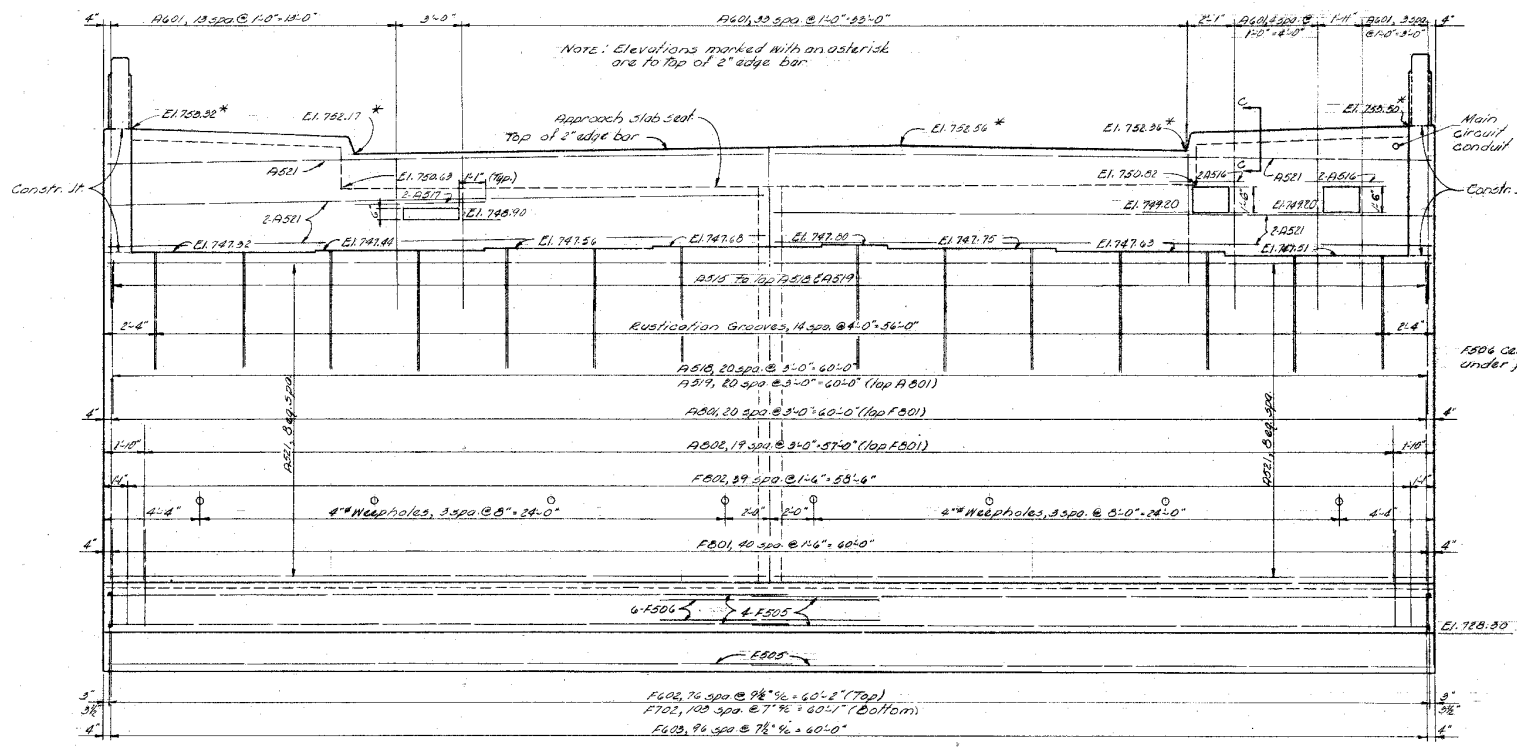
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

223
250

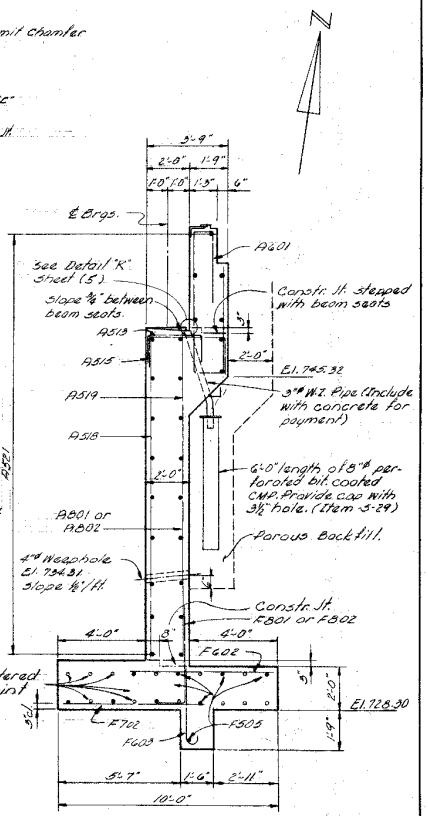
FRANKLIN COUNTY
FRA-40-12.82



PLAN



ELEVATION



SECTION H-H

Note: For additional notes and details see sheet 225.

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

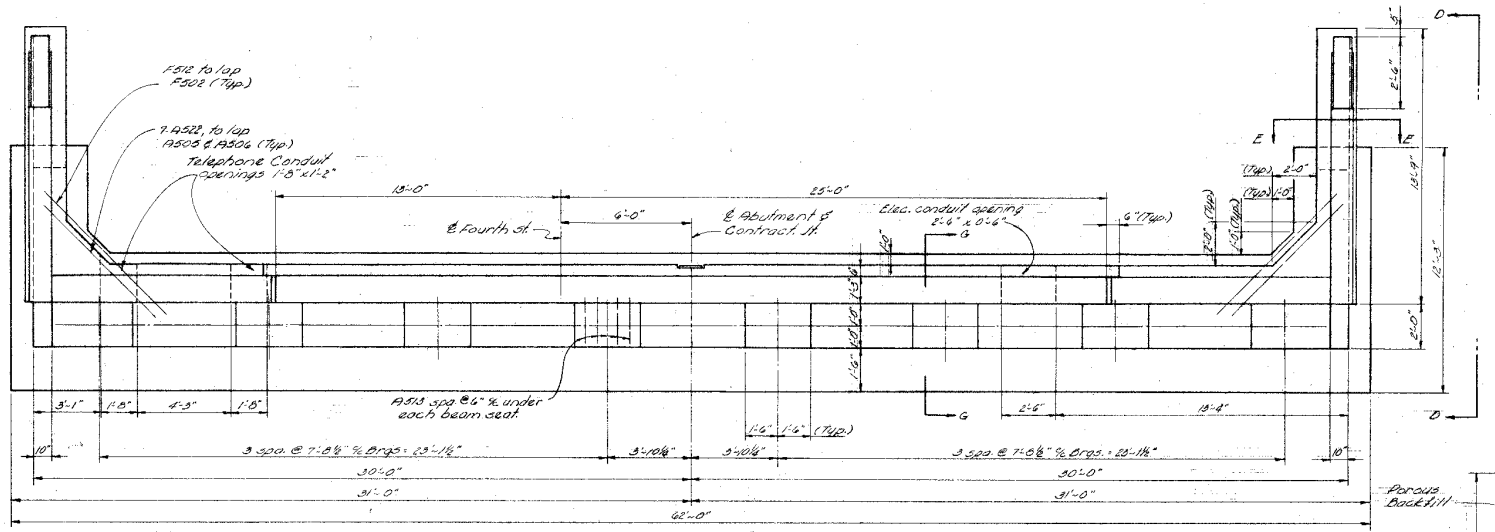
NORTH ABUTMENT
BRIDGE No. FRA-40-1834
SOUTH INNERBELT UNDER FOURTH ST.
FRANKLIN COUNTY
STA-784+94.63

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
R.T.	BDB		Pardo	TLU	5-8-62	

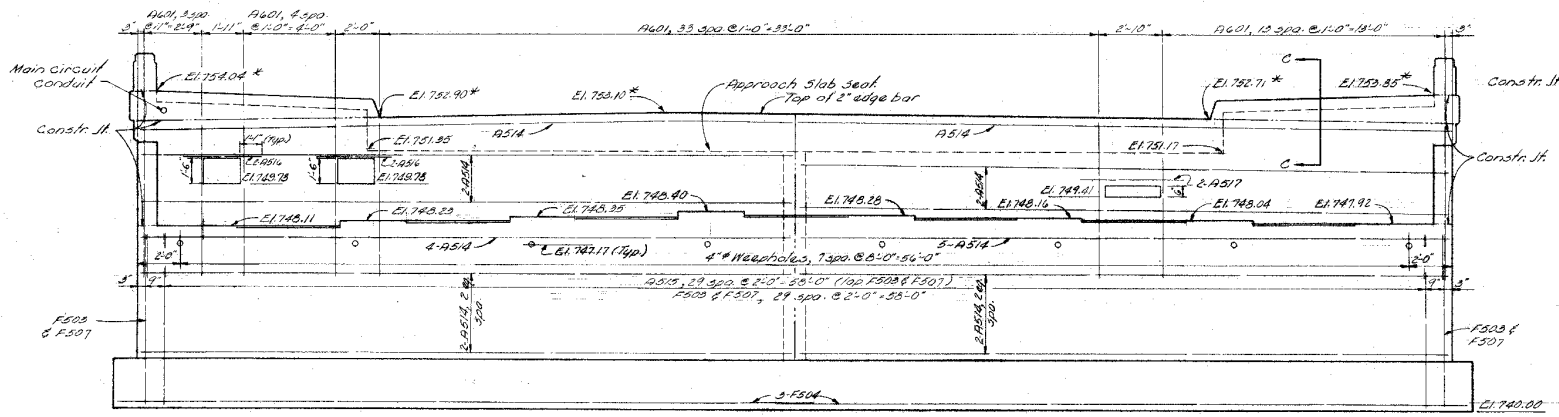
FED. NO. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

R24 250

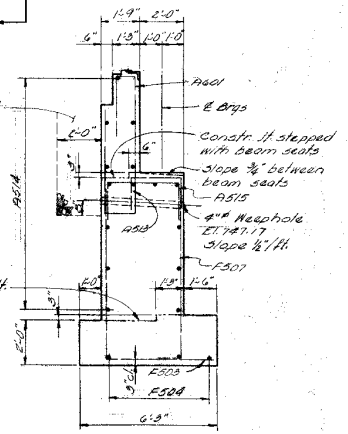
FRANKLIN COUNTY
FRA-40-10.82



PLAN



ELEVATION



SECTION G-G

Note: Elevations marked with an asterisk are to the top of the 2" edge bar on the end dam.

For additional details and notes see Sheet 225

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

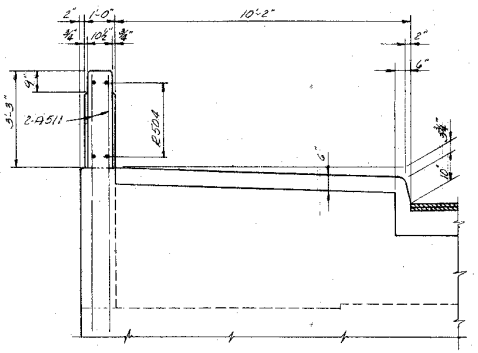
SOUTH ABUTMENT
BRIDGE No. FRA-40-1334
SOUTH INNERBELT UNDER FOURTH ST.
FRANKLIN COUNTY
STA. 787+34.63

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
R.T.	BDB		Pardo	TLU	5-8-62	

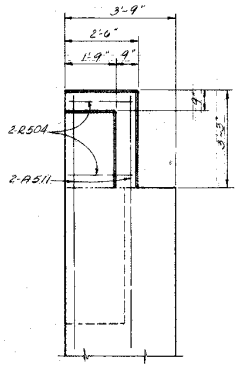
REG. NO. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

225/250

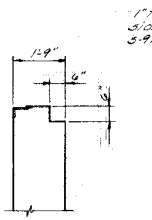
FRANKLIN COUNTY
FRA-40-12.82



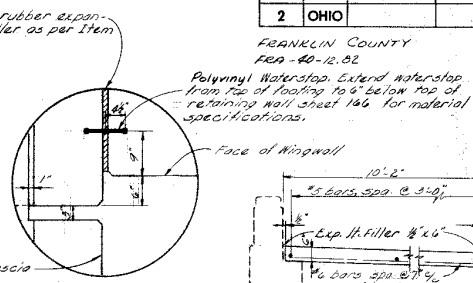
VIEW A-A



VIEW B-B

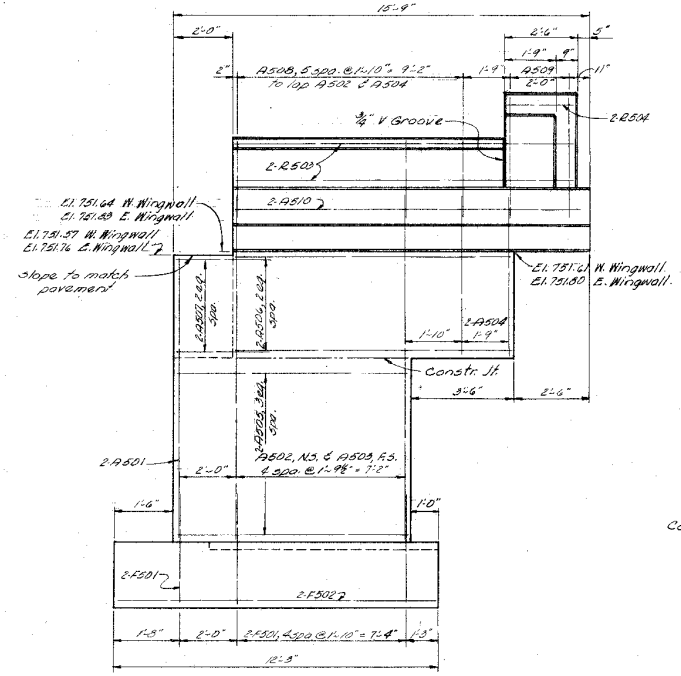


SECTION C-C

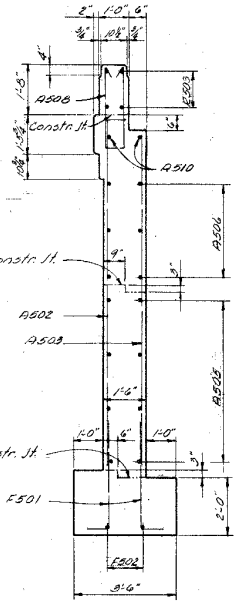


DETAIL F

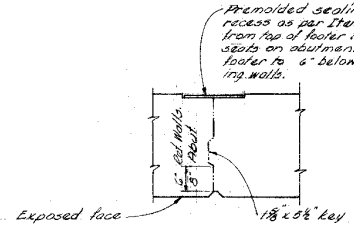
SECTION H-H
SIDEWALK DETAIL



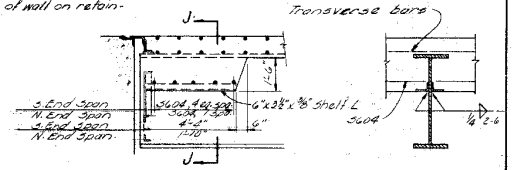
VIEW D-D



SECTION E-E

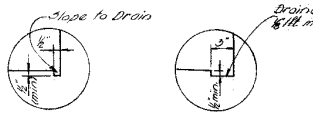


CONTRACTION JOINT DETAIL

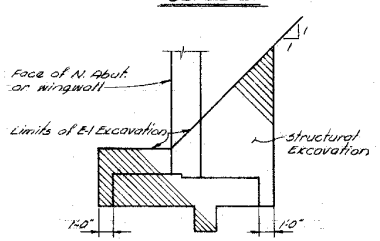


COUNTER WEIGHT DETAIL
SECTION J-J

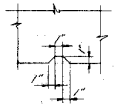
Note: Counter weight shall extend between exterior beams



DETAIL K



EXCAVATION DETAIL



RUSTICATION GROOVE DETAIL

NOTES

PROCEDURE: Before the backwall of the N. Abutment is placed the backfill shall be placed and compacted up to the level of the subgrade with a 1:1 slope from the bridge seat to the subgrade.

CONCRETE END POSTS: Concrete end posts are included with Item 3.4 for payment.

POROUS BACKFILL: Porous backfill shall extend upward to the approach slab or sidewalk for the full length of the abutments.

JOINTS: A joint shall be provided in the abutment portion of the end dam of each contraction joint.

FOOTING KEY: The key under the footing shall be placed in a carefully made trench against undisturbed earth.

RIGHT OF WAY FENCE: For fence connection to end post see sheet 163.

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

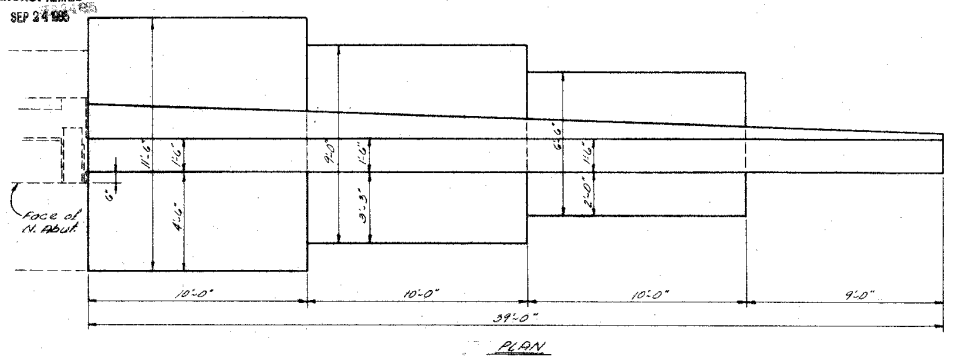
ABUTMENT DETAILS
BRIDGE No. FRA-40-1234
SOUTH INNERBELT UNDER FOURTH ST.
FRANKLIN COUNTY
STA 78+34.63

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
R.T.	BDB		Pardo	TLV	5-8-62	

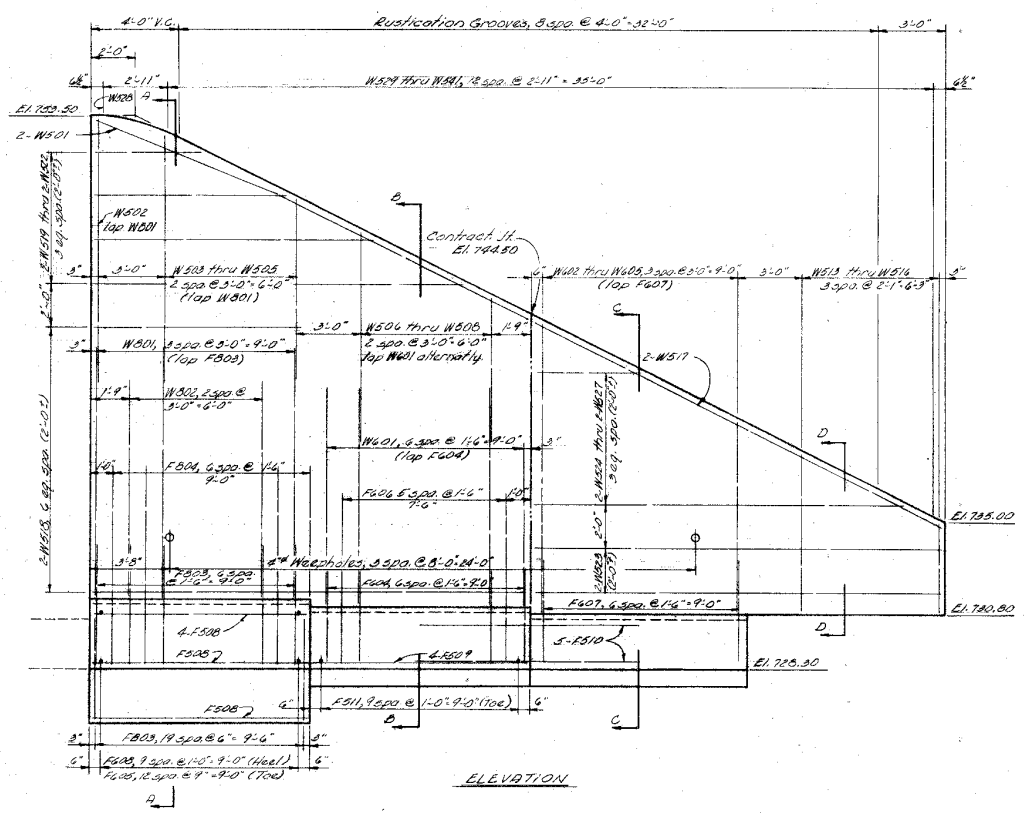
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

224
250

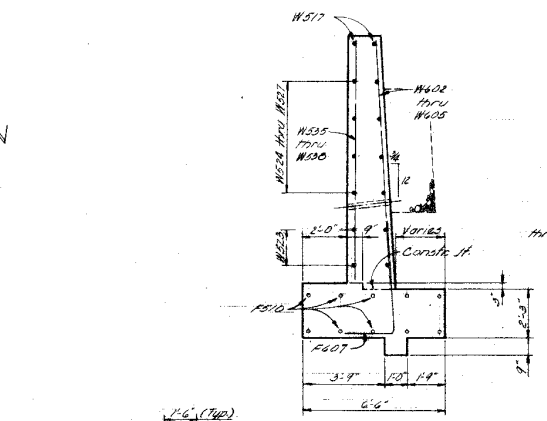
FRANKLIN COUNTY
FRA-40-12.82



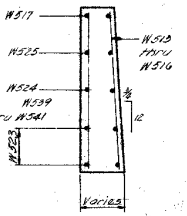
PLAN



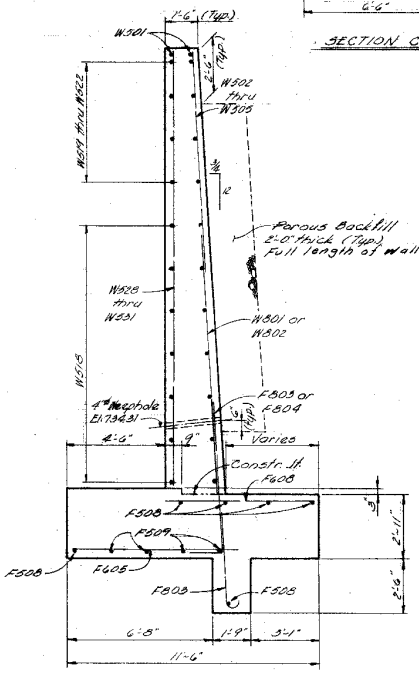
ELEVATION



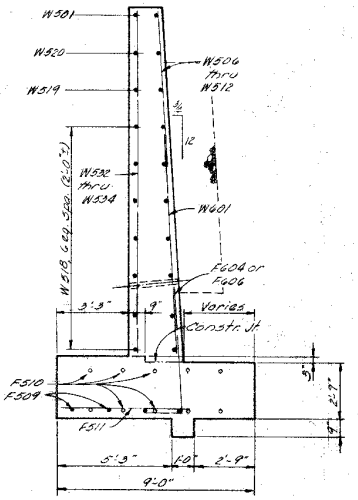
SECTION C-C



SECTION D-D



SECTION A-A



SECTION B-B

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

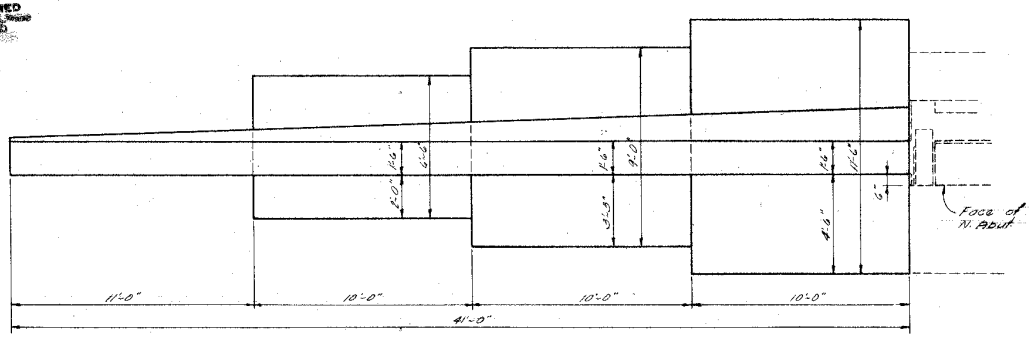
NORTHEAST RETAINING WALL
BRIDGE NO. FRA-40-1934
SOUTH INNERBELT UNDER FOURTH ST.
FRANKLIN COUNTY
STA. 78+34.63

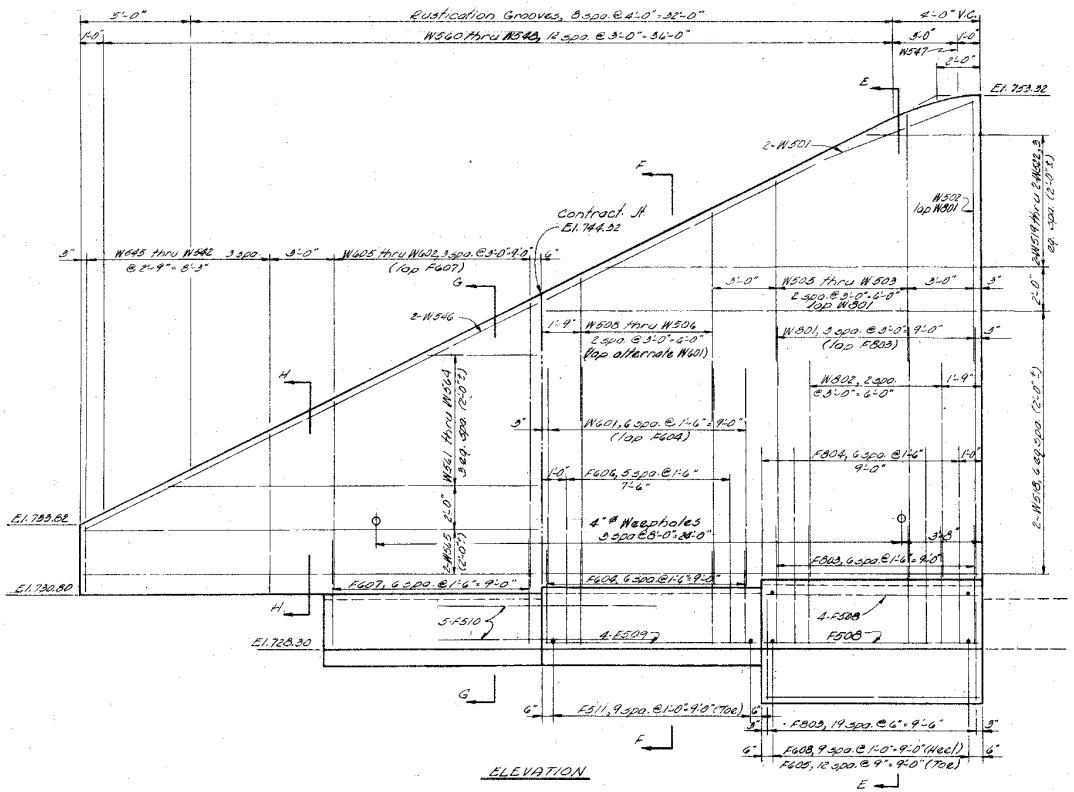
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
R.T.	BDB		Pardo	TLU	5-8-92	

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

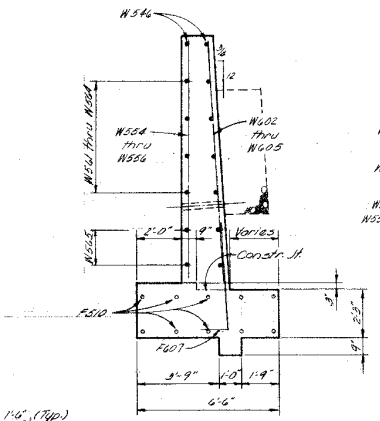
227
250

FRANKLIN COUNTY
FRA-40-12.82

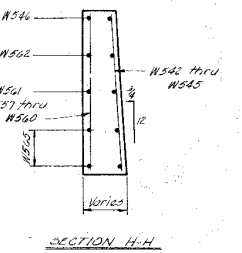




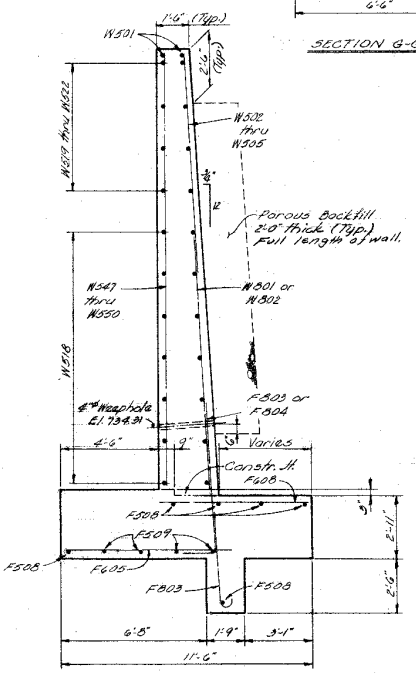
ELEVATION



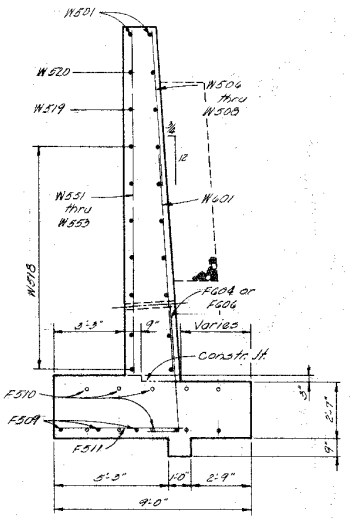
SECTION G-G



SECTION H-H



SECTION E-E



SECTION F-F

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

NORTHWEST RETAINING WALL
BRIDGE NO. FRA-40-1334
SOUTH INNERBELT UNDER FOURTH ST.
FRANKLIN COUNTY STA-78+34.63

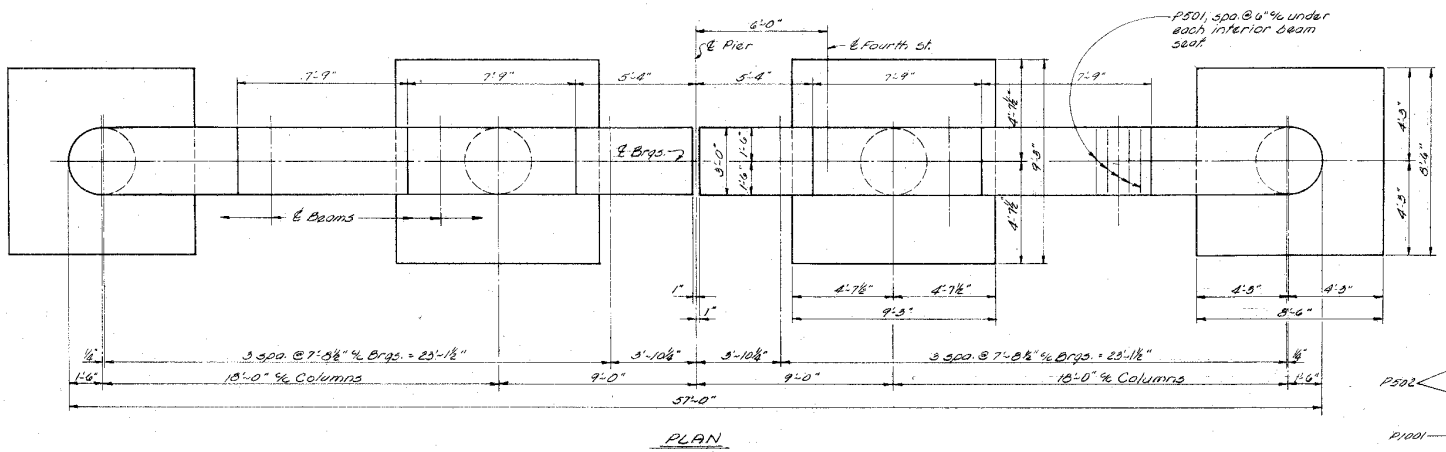
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
R.T.	BDB		Pardo	TLJ	5-8-82	

RECEIVED
SEP 24 1965

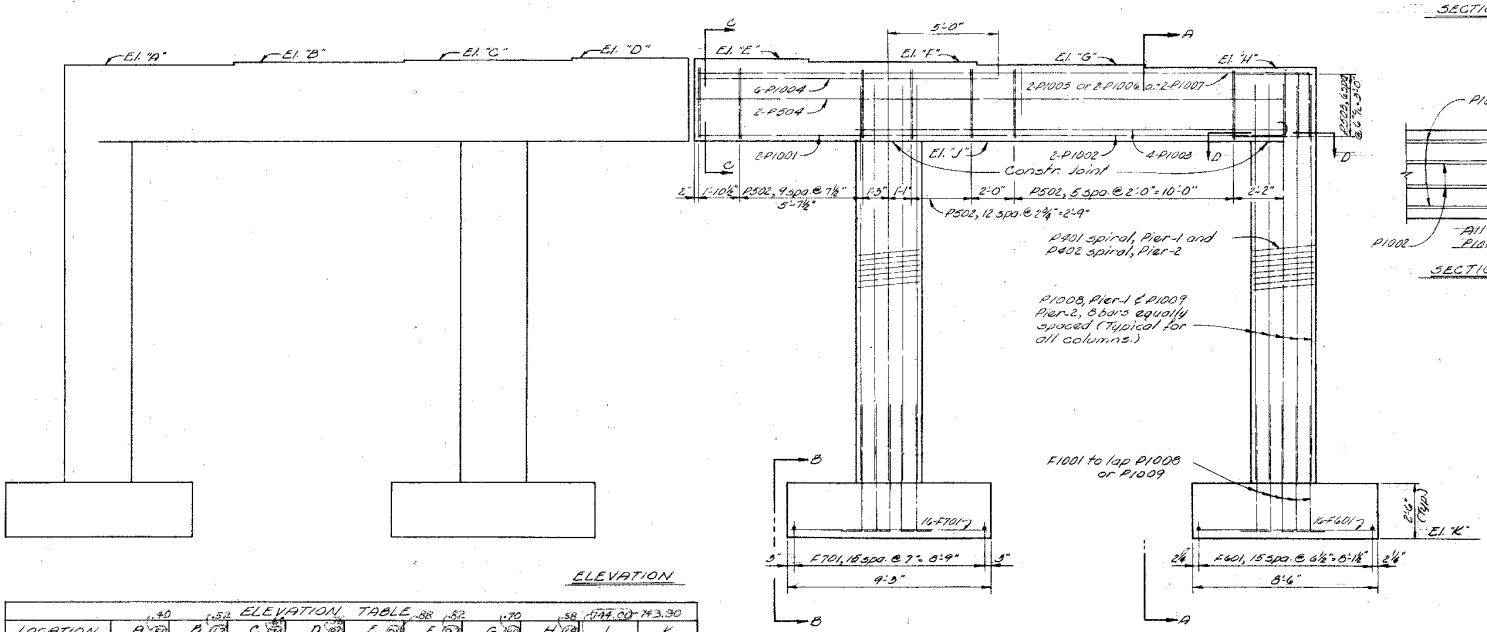
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

228
250

FRANKLIN COUNTY
FRA-40-12.82



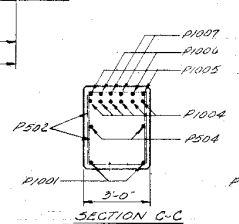
PLAN



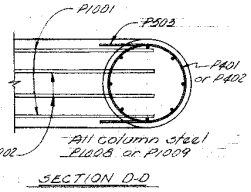
ELEVATION

ELEVATION TABLE

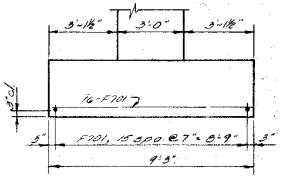
LOCATION	A (.50)	B (.62)	C (.74)	D (.86)	E (.98)	F (1.32)	G (1.70)	H (1.58)	J (744.00 to 743.30)	K
Pier -1	747.50	747.62	747.74	747.86	747.98	747.82	747.70	747.58	742.90	726.10
Pier -2	747.50	747.63	747.77	747.89	747.81	747.64	747.96	747.82	743.00	729.00
	.13	.25	.37	.49	.61	.56	.44	.32	.63	



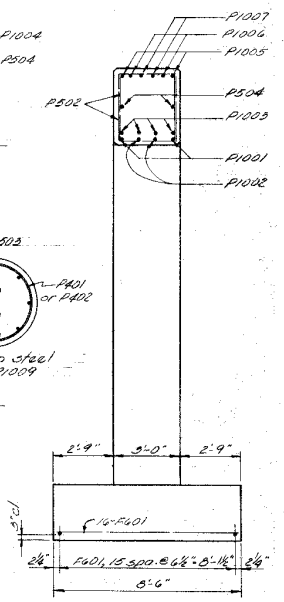
SECTION C-C



SECTION D-D



VIEW B-B
(Typ. interior footing steel.)



SECTION A-A
(Typ. exterior footing steel.)

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

PIER DETAILS
BRIDGE NO. FRA-40-1934
SOUTH INNERBELT UNDER FOURTH ST.
FRANKLIN COUNTY
STA 75+34.63

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
R.T.	BDB		Pardo	TLU 5-8-62	10-31-63	11-27-63

MICROFILMED
SEP 24 1985

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

229
250

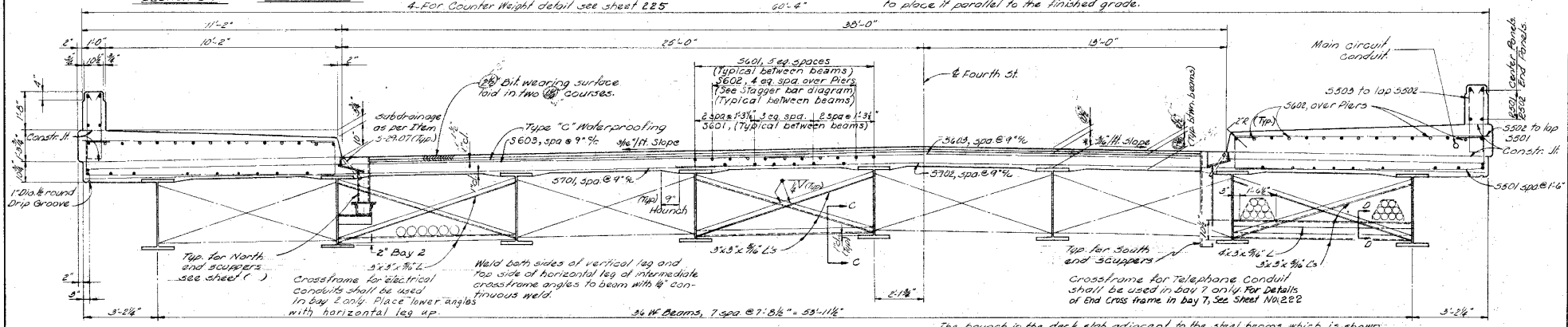
FRANKLIN COUNTY
FRA-40-12.82

SECTION C-C

SECTION D-D

1- Concrete parapets are included with Item 5-14 for payment.
2- All longitudinal bars S601 except as otherwise shown. Lap S601 bars a minimum of 1'-11".
3- Sidewalk and parapet reinforcing and dimensions typical for both sides.
4- For Counter Weight detail see sheet 225

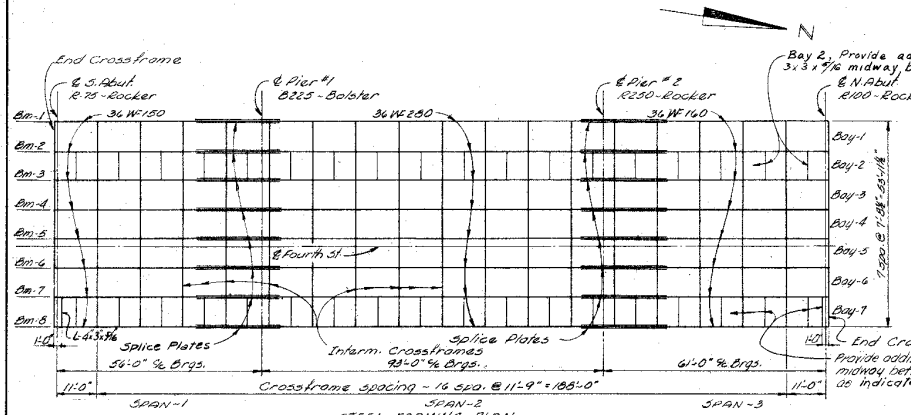
5- ℄ span-1, 7⅛" span-2, 7⅜" span-3. These are nominal dimensions. The quantity of deck concrete to be paid for shall be based on these dimensions, even though deviation from it may be necessary because the top flange of the beam may not have the exact camber or conformation required to place it parallel to the finished grade.



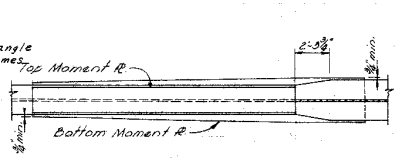
Subdrainage shall be used at the face of both sidewalks as per Item 5-29.

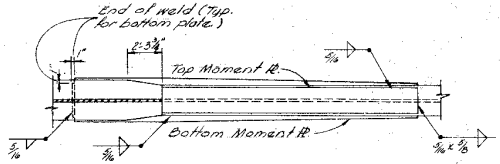
TRANSVERSE SECTION

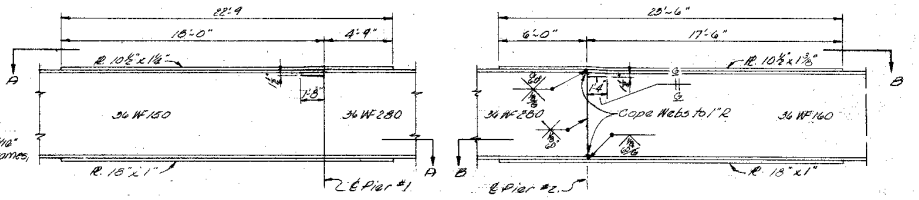
The haunch in the deck slab adjacent to the steel beams, which is shown as 9" wide may vary from this dimension with a minimum of 6" and a maximum of 12". Maximum slope of haunch shall be one vertical to 4 horizontal. Payment for deck slab shall be based on a 9" width.



STEEL FRAMING PLAN







"G" indicates grinding

BEAM SPLICE DETAILS
(all welds are typ.)

DEFLECTION & CAMBER									
LOCATION	SPAN-1			SPAN-2			SPAN-3		
BEAMS	1-8	2-7	3-4-5-6	1-8	2-7	3-4-5-6	1-8	2-7	3-4-5-6
Defl. due to wt. of steel	-1/4	-1/4	-1/4	3/8	3/8	3/8	0	0	0
Defl. due to remain. D.L.	3/16	1/8	1/8	1/4	1 5/16	1 5/16	5/16	3/16	3/16
Convexity	1/8	1/8	1/8	1	1	1	7/16	1/16	1/16
Total of Defl. & Conv.	1/4	3/16	3/16	2 5/8	2 5/16	2 5/16	1/2	5/16	5/16
Required Camber	0	0	0	2 5/8	2 1/4	2 1/4	0	0	0

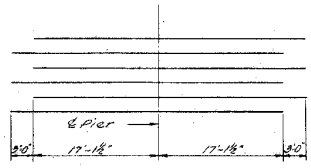


DIAGRAM SHOWING STAGGER OF S602 BARS OVER PIERS

BEAM SPLICE WELDING PROCEDURE

1- Raise the abutment ends of the beams 1⅜" at the South Abutment and 1⅛" at the North Abutment.
2- Butt-weld the beam flanges and web of the piers using the following sequence, make one pass on each flange then two on the web; repeat using one pass of each location until welds are completed.
3- Weld the bottom and top moment plates at piers.
4- Lower beam ends to final position.

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

SUPERSTRUCTURE DETAILS
BRIDGE No. FRA-40-1294
SOUTH INNERBELT UNDER FOURTH ST.
FRANKLIN COUNTY STA 78+34.63

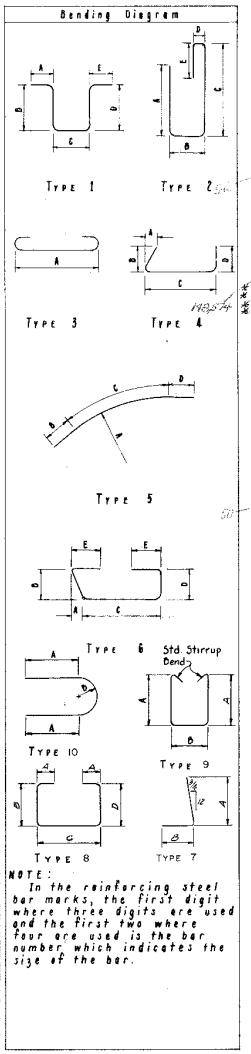
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
R.T.	BDB		Pardo	TLU 58-82		7-8-85

REINFORCING STEEL LIST

Mark	Nº	Length	Weight	Type	"A"	"B"	"C"	"D"	"E"	Shape
		SUPERSTRUCTURE								
R501	104	14-2	*							sf.
R502	16	11-6	*							sf.
R503	8	13-0	*							sf.
R504	12	2-2	*							sf.
S501	282	15-2	4461	8	1-0	1-6	10-8	1-6		bf.
S502	282	10-8	3139							sf.
S503	282	6-5	1887	9	2-8	0-6				bf.
S601	540	37-1	30,077							sf.
S602	39	37-3	2182							sf.
S603	282	31-0	13,130							sf.
S604	49	7-4	540							sf.
S701	282	27-3	15707							sf.
S702	282	35-0	20,174							sf.
					PIERS					
P501	80	4-1	341	1		0-10	2-8	0-10		bf.
P502	240	8-5	2107	1		3-0	2-8	3-0		bf.
P503	28	7-8	214	10	1-7	1-4				bf.
P504	8	26-9	223							sf.
P1001	8	28-2	970	3	26-9					bf.
P1002	8	20-11	720	3	19-6					bf.
P1003	16	19-6	1943							sf.
P1004	28	13-9	1420							sf.
P1005	8	29-9	1024	1			27-5	2-8		bf.
P1006	8	30-1	1036	1			27-9	2-8		bf.
P1007	8	30-5	1047	1			28-1	2-8		bf.
P1008	32	18-4	2524							sf.
P1009	32	15-1	2076							sf.
F601	128	8-2	1571							sf.
F701	128	8-11	2333							sf.
P1001	64	6-6	1790	1			5-5	1-5		bf.
					ABUTMENTS					
A501	4	9-2	38							sf.
A502	10	11-9	123	1			11-5	0-6		bf.
A503	10	11-2	117							sf.
A504	8	5-7	47							sf.
A505	16	9-4	156							sf.
A506	12	10-11	137							sf.
A507	12	3-7	45							sf.
A508	12	6-3	78	9	2-7	0-6				bf.
A509	4	8-9	37	1		4-3	0-6	4-3		bf.
A510	4	13-3	55							sf.
A511	6	10-9	90							sf.
A513	80	3-1	237	1		0-10	1-8	0-10		bf.
A514	30	29-8	929							sf.
A515	51	6-4	337	1		1-7	3-5	1-7		bf.
A516	8	3-10	32							sf.
A517	4	4-8	19							sf.
A518	21	16-6	361							sf.
A519	21	10-0	219							sf.
A521	50	30-0	1545							sf.
A601	114	15-1	2582	2	4-9	1-5	6-2	0-11	2-6	bf.
A801	21	9-2	514							sf.
A802	20	7-2	383							sf.
F501	24	4-6	119	1			3-8	1-0		bf.
F502	4	11-11	50							sf.
F503	30	12-1	378	1			7-4	4-11		bf.
F504	6	31-8	198							sf.
F505	18	31-0	582							sf.
F506	12	10-0	125							sf.

Mark	Nº	Length	Weight	Type	"A"	"B"	"C"	"D"	"E"	Shape
				ABUTMENTS (Cont.)						
F507	30	8-2	256	1			7-4	1-0		bf.
F602	77	5-6	636							sf.
F603	97	3-11	571	3	3-3					bf.
F702	104	6-9	1495							sf.
F801	61	5-3	575	1			4-3	1-2		bf.
F802	40	7-6	801	1			6-7	1-2		bf.
				WINGWALLS						
W501	4	21-7	90							sf.
W502	2	12-0	25							sf.
W503	2	11-6								sf.
thru		Yardy 4-6	63							
W505	2	8-6								sf.
W506	2	9-0								sf.
thru		Yardy 4-6	47							
W508	2	6-0								sf.
W513	1	7-0								sf.
thru		Yardy 4-6	23							
W516	1	3-11								sf.
W517	2	20-7	43							sf.
W518	28	19-8	575							sf.
W519	4	17-0								sf.
thru		Yardy 4-6	184							
W522	4	5-0								sf.
W523	4	18-8	78							sf.
W524	2	17-0								sf.
thru		Yardy 4-6	92							
W527	2	5-0								sf.
W528	1	21-11	23							sf.
W529	1	21-0								sf.
thru		Yardy 4-5	169							
W541	1	4-0								sf.
W542	1	6-11								sf.
thru		Yardy 4-6	20							
W545	1	2-10								sf.
W546	2	23-2	98							sf.
W547	1	21-9	23							sf.
W548	1	20-9								sf.
thru		Yardy 4-6	169							
W560	1	3-3								sf.
W561	2	16-10								sf.
thru		Yardy 4-5	90							
W564	2	4-10								sf.
W565	4	20-8	84							sf.
W601	14	10-0	210							sf.
W602	2	13-2								sf.
thru		Yardy 4-6	191							
W605	2	8-8								sf.
W801	8	11-6	246							sf.
W802	6	10-0	160							sf.
F508	12	6-0	76							sf.
F509	8	19-8	164							sf.
F510	20	10-0	209							sf.
F511	20	3-1	64							sf.
F604	14	5-1	107	7	4-3	1-0				bf.
F605	24	7-4	246							sf.
F606	12	8-7	155	7	7-9	1-0				bf.
F607	14	5-5	114	7	4-9	1-0				bf.
F608	20	6-0	180							sf.
F803	14	6-1	227	7	5-2	1-2				bf.
F804	14	9-11	371	7	9-0	1-2				bf.
F805	40	5-9	614	3	4-3					bf.

Bending Diagram



NOTE:
In the reinforcing steel bar marks, the first digit where three digits are used and the first two where four are used is the bar number which indicates the size of the bar.

SPIRALS - HOT ROLLED

Mark	Nº	Length	Core	Pitch	Turns	Spacers	Weight
P401	4	15-4	32	4½	44	16	1137
P402	4	12-0	32	4½	35	16	903

SPIRALS

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 COILS), EXPRESSED AS THE NEAREST WHOLE NUMBER.

SPIRAL REINFORCING BARS SHALL NOT HAVE DEFORMATIONS BUT SHALL IN OTHER RESPECTS CONFORM TO ITEM S-4, 1½ CLOSED COILS SHALL BE PROVIDED AT THE ENDS OF EACH SPIRAL UNIT. FOUR STEEL CHANNEL, TEE OR ANGLE SPACERS, WEIGHING APPROXIMATELY 0.68 LB. PER LIN. FT. OF SPACER, 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 LB. PER LIN. FT., WILL BE PAID FOR AS REINFORCING STEEL AND IS INCLUDED IN THE TABULATED QUANTITY OF SPIRAL BARS.

FED. NO. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

230
250

FRANKLIN COUNTY
FRA-40-12.82

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	ABUT.	PIER	SUPERS.	RET. WALL	GENERAL
E-2	684	Cu.Yd.	Unclassified Excavation	363	148		173	
E-2	Lump	Sum	Cofferdams cribs & sheeting					Lump
S-1	79	Cu.Yd.	Class "E" concrete, retaining walls above footings				79	
S-1	390	Cu.Yd.	Class "E" concrete, superstructure			390		
S-1	77	Cu.Yd.	Class "C" concrete, pier caps and columns		77			
S-1	202	Cu.Yd.	Class "E" concrete, footings	87	59		56	
S-1	187	Cu.Yd.	Class "E" concrete, abutments above footings	187				
S-3	895	Sq.Yd.	Type "C" waterproofing			895		
S-3	47	Lin.Ft.	Waterproofing, premolded sealing strip	21			26	
S-4	133,226	Lbs.	Reinforcing Steel	13841	22779	91,451	5155	
S-7	439,300	Lbs.	Structural Steel			439,300		
S-7	847	Lbs.	Structural Steel (electrical conduit support)					847
S-7	1050	Lbs.	Structural Steel (telephone conduit support)					1050
S-8	441,197	Lbs.	Field painting of structural steel			441,197		
S-9	94	Sq.Ft.	1" gray rubber preformed exp. jt. filler				94	
S-12	456	Lin.Ft.	Railing (Alum. rail supports, conc. parapets & end posts)	32		424		
S-25	2	Each	Mercury Vapor Luminaire			2		
S-25	2	Each	Lamp Standard			2		
S-25	164	Lin.Ft.	Pole and bracket cable (Single Conductor)			164		
S-25	460	Lin.Ft.	Main Circuit cable (Single Conductor)			460		
S-29	57	Lin.Ft.	Drainage conductor including supports					57
S-29	422	Lin.Ft.	Subdrainage for wearing surface course			422		
S-29	143	Cu.Yd.	Porous Backfill	100			43	
S-29	42	Lin.Ft.	8"ø perforated bituminous coated CMP	42				
S-29	14	Each	Scuppers, including supports			14		
S-29	30	Lin.Ft.	6"ø Std. pipe downspout, galv. all or W.I. incl. spec.	30				
304	68	Cu.Yd.	Asphaltic conc. surface course, Type "C" (60-70)			68	50	
S-10	499	Sq.Yd.	Concrete Slope Protection					499
Spec.	43	Lin.Ft.	Polyvinyl waterstop				43	
S-101	530	Each	Water reducing, set retarding admixture			530		
S-25	230	Lin.Ft.	Main circuit conduit & fittings, 2"ø			230		
S-25	Lump	Sum	Electric grounding system					Lump

Replacement Steel

Mark	Nº	Length	Weight	Type	A	B	C	D	E	Shape
RE501	2	5-7								sf.
RE601	3	5-11								sf.
RE701	2	6-2								sf.
RE801	1	6-6								sf.
RE1001	1	7-2								sf.
		Replacement Steel for Spirals								
RE401	1	5-3		5	1 3½		5-3			bf.
		Lamp Standard Reinforcing								
L570	8	1-10	16							ea.
L571	4	1-4	6							sf.
L572	6	4-1	26	1		0-8	3-0	0-8		bf.
L573	6	5-1	32	1		1-2	3-0	1-2		bf.
L574	4	3-10	16	1		0-8	2-9	0-8		bf.
L575	4	4-10	20	1		1-2	2-9	1-2		bf.
L576	6	3-10	24	1	1-10	2-2				bf.
L577	4	3-7	14	1	1-7	2-2				bf.

* Non-participating by State of Ohio or Bureau of Public Roads.

* HORIZONTAL PARAPET REINFORCING
THESE BARS ARE INCLUDED WITH THE RAILING FOR PAYMENT.

Revised As-Built 3/16/66 J.V.A.

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

REINFORCING STEEL LIST AND ESTIMATED QUANTITIES
BRIDGE NO. FRA-40-1334
SOUTH INNERBELT UNDER FOURTH ST.
FRANKLIN COUNTY STA. 78+34.63

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
R.T.	BDB		Pardo	T.J.U	5-8-62	7-3-62

FED. RD DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

231
250

Franklin County
FRA-40-12.82

REFERENCES:

Standard Drawings:

End Dam and End Cross Frame Details	- CSB-2-56,	Sheets 2 & 3 Revised 2-2-59
Scupper Details	- CSB-2-56,	Sheets 2 & 3 Revised 2-2-59
Railing Details Type C	- AR-1-57,	Revised 4-2-62
Rocker and Bolster Details	- RB-1-55,	Revised 2-2-59
Approach Slab Details	- AS-1-54,	Revised 7-5-62
Supplemental Specification	- S-101	Dated 7-12-62

Common Details:

Scupper Details	- Sheet 164
Downspout and Conductor Details	- Sheet 166
Lighting Details	- Sheet 165
Railing Details	- Sheet 163
Concrete Slope Protection Details	- Sheet 163
R/W Fence Details	- Sheet 163
Sidewalk End Dam Details	- Sheet 164

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 revisions thereof dated 2-21-58.

FOUNDATION SOUNDINGS: Foundation design and foundation quantities are based on a study of rod soundings and soil sampling soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus or in an abridged form in the Division office, but the State assumes no responsibility for the accuracy thereof.

WELDING of structural steel shall be Class "A" except as otherwise shown. Any welds shown as field welds may be, at the option of the contractor, made in the shop. Class "B" welding shown thus:

B)—\

CONCRETE DECK PLACING: In order to facilitate water curing of the concrete in the deck slab, the placing of concrete shall progress up grade. The slab may be placed in sections between transverse construction joints which are parallel to the transverse slab bars and are located near the center of any span.

BEARING SURFACES: The concrete surface under all rockers and bolsters shall be placed a minimum of 1/4-inch above the required elevation and accurately ground to the final elevation. Cost shall be included with the pertinent concrete Item S-1.

TRAFFIC MAINTENANCE: For details of traffic maintenance, see Roadway Plans.

FOUNDATION BEARING PRESSURE: Pier footings are designed for a maximum bearing pressure of 3.5 tons per square foot, the north abutment footing for 3.0 tons per square foot, and the south abutment footing for 2.0 tons per square foot.

UTILITY LINES: All labor and expenses involved in relocating the affected utility lines shall be borne by the Owners. The Contractor and the Owners are requested to cooperate by arranging their work in such a manner that inconvenience to either will be held to a minimum.

WIRING DETAILS: For details and notes for wiring, see Roadway Plans.

ELECTRICAL GROUNDS: A stranded No. 1/0 AWG bare copper wire electrical ground shall be embedded in the outside column on one side of the structure at Pier No. 1. The lower end of the wire shall terminate in a 25-foot length coil placed under the footing and separated from the concrete by two layers of tar paper and the upper end shall extend sufficiently above the top of the concrete to provide for an exothermic welded connection to outside beam of the superstructure. Ground each light pole with a No. 1/0 AWG stranded bare copper cable. Exothermic weld one end of cable to an anchor bolt and the other end to the top flange of the outside beam.

CURING: Deck concrete shall be cured in accordance with Sec. S-1.21 Method (a) using a continuous application of water. Plastic coated burlap or mats shall not be used.

GRAVEL, if used as the coarse aggregate, shall be in accordance with Sec. M-3.93 instead of M-3.92 for Class "C" concrete in the superstructure. Gravel meeting the requirements of Sec. M-3.93 also may be used for other concrete in this structure.

SHOP PAINTING STEEL: The surface preparation of all steel requiring shop painting, as per the Plans and Specifications, shall be accomplished by blast cleaning or power tool cleaning except as noted in the specifications regarding the use of Chromate Primers.

SHEET LEAD shall conform to the requirements of ASTM Designation B29 without restriction to the Common Desilverized type.

SURFACE FINISH OF CONCRETE: The requirements of Sec. S-1.22, Rubbed Finish, shall apply to the following exposed concrete surfaces:

a. The entire superstructure except the top and bottom surfaces of roadways and sidewalks.

b. All surfaces of piers and abutments which will be exposed upon completion of the construction except bridge seats, backwalls, and the face of spill-thru abutment between outside beams.

ALDEN E. STILSON & ASSOCIATES, LIMITED
CONSULTING ENGINEERS
COLUMBUS, OHIO

GENERAL NOTES

BRIDGE NO. FRA-40-1334

SOUTH INNERBELT UNDER FOURTH ST.

FRANKLIN COUNTY STA. 78+39.63

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
				TLU	5-18-62	