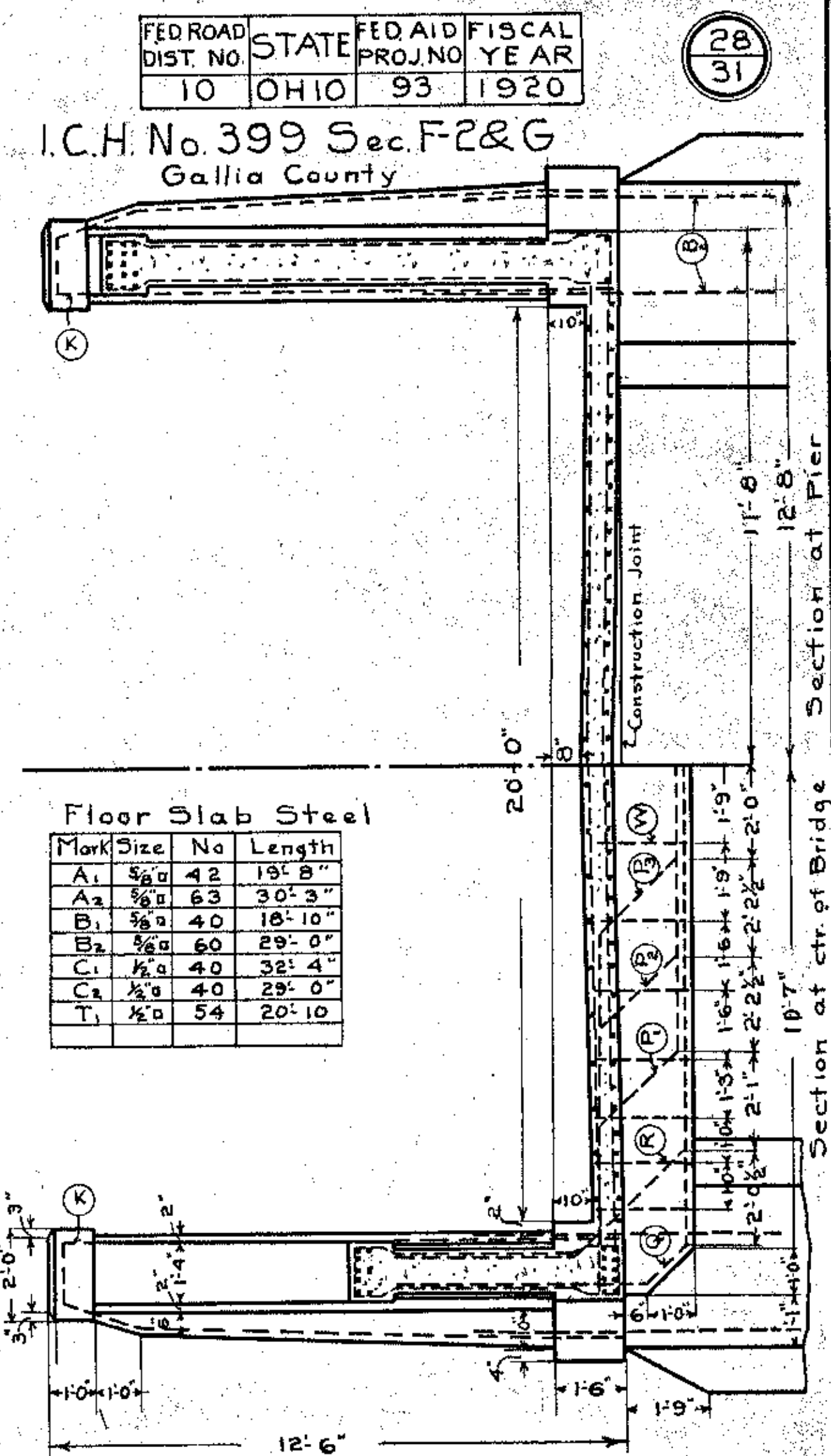
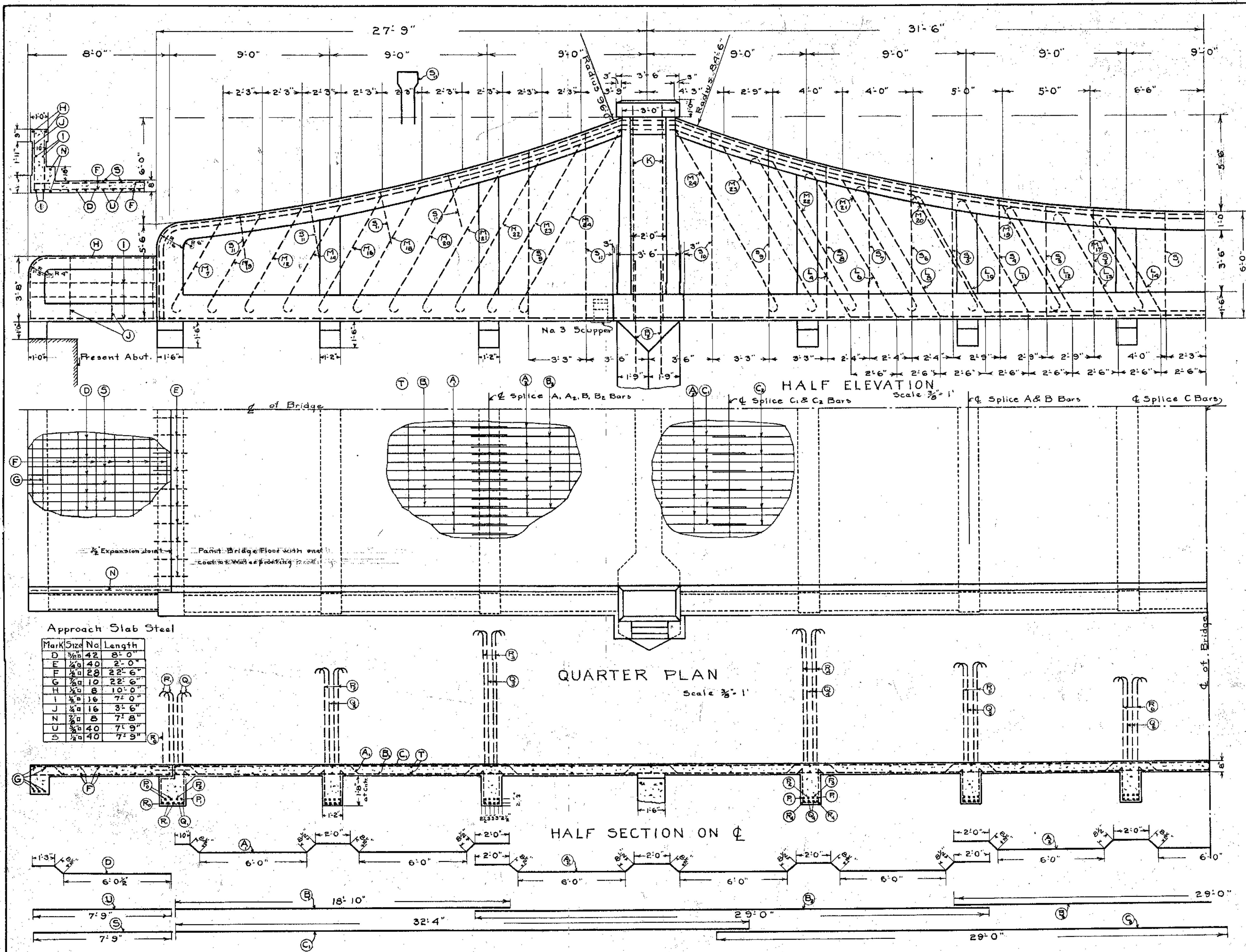


ELEVATION

Estimate of Quantities Substructure	
Excavation	300 cu yds.
Concrete 1:2½:5	190 cu yds.
Reinf Steel	8050 lbs.
Piling	1280 lin. ft.

DETAIL OF SUBSTRUCTURE
STANDARD
CONCRETE CANTILEVER BRIDGE
LENGTH 118 FT 6" ROADWAY 20 FT
LOADING T-15
GALLIPOLIS-JACKSON ROAD
OVER RACCOON CR. STA. 311 + 72.25
STATE HIGHWAY DEPARTMENT
COLUMBUS - OHIO
Feb 1920 BUREAU OF BRIDGES

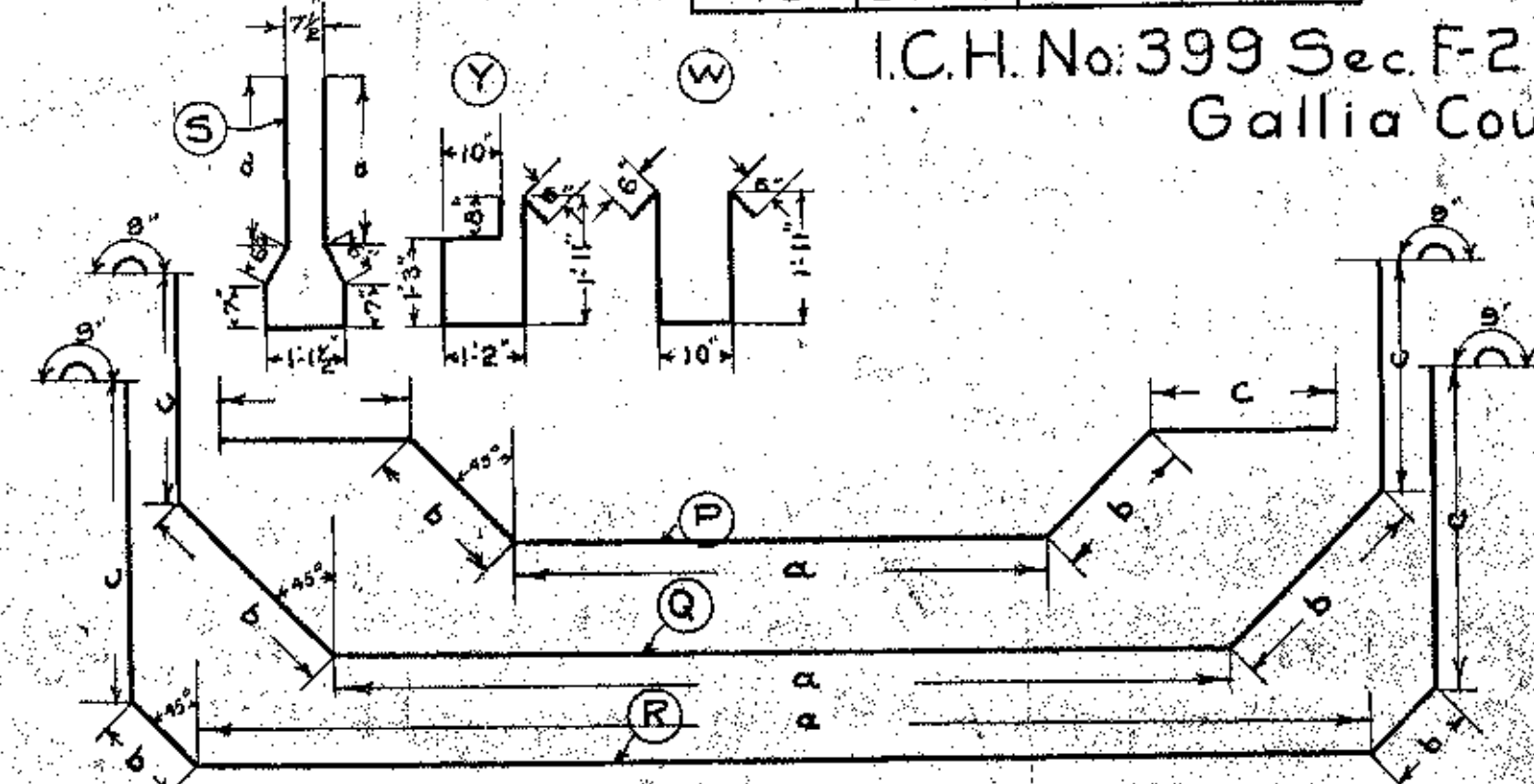


Estimated Quantities Superstructure
Concrete 1:2:4 183 Cu. yds.
Reinforcing Steel 37750 lbs.

FED. ROAD DIST. NO. 10 STATE OHIO FED. AID PROJ. NO. 93 FISCAL YEAR 1920

29
31

I.C.H. No. 399 Sec. F-2 & G
Gallia County



Steel Lists

Mark	Size	a	b	c	No	Length
P ₁	2 1/2"	12.10	2.3	3.6	22	24.4"
P ₂	2 1/2"	12.10	2.3	3.6	12	24.4"
P ₃	2 1/2"	12.10	2.3	3.6	10	24.4"
P ₄	2 1/2"	12.10	2.3	3.6	4	34.11"
P ₅	2 1/2"	12.10	2.3	3.6	4	37.7"
P ₆	2 1/2"	12.10	2.3	3.6	4	41.11"
P ₇	2 1/2"	12.10	2.3	3.6	4	42.1"
P ₈	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₉	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₁₀	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₁₁	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₁₂	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₁₃	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₁₄	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₁₅	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₁₆	2 1/2"	12.10	2.3	3.6	4	36.1"
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P ₂₁	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₂₂	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₂₃	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₂₄	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₂₅	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₂₆	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₂₇	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₂₈	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₂₉	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₃₀	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₃₁	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₃₂	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₃₃	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₃₄	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₃₅	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₃₆	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₃₇	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₃₈	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₃₉	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₄₀	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₄₁	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₄₂	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₄₃	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₄₄	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₄₅	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₄₆	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₄₇	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₄₈	2 1/2"	12.10	2.3	3.6	4	36.1"
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P ₅₂	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₅₃	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₅₄	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₅₅	2 1/2"	12.10	2.3	3.6	4	36.1"
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P ₅₇	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₅₈	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₅₉	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₆₀	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₆₁	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₆₂	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₆₃	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₆₄	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₆₅	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₆₆	2 1/2"	12.10	2.3	3.6	4	36.1"
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P ₇₃	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₇₄	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₇₅	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₇₆	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₇₇	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₇₈	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₇₉	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₈₀	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₈₁	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₈₂	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₈₃	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₈₄	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₈₅	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₈₆	2 1/2"	12.10	2.3	3.6	4	36.1"
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P ₉₆	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₉₇	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₉₈	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₉₉	2 1/2"	12.10	2.3	3.6	4	36.1"
P ₁₀₀	2 1/2"	12.10	2.3	3.6	4	36.1"

Mark	Size	No	Length
M ₁	1"	8	11.5"
M ₂	"	8	40.0"
M ₃	"	4	40.0"
M ₄	"	8	16.12"
M ₅	"	8	40.0"
M ₆	"	4	30.0"
M ₇	"	4	28.1"
M ₈	"	4	40.0"
M ₉	"	4	18.08"
M ₁₀	"	4	40.0"
M ₁₁	"	2	20.0"
M ₁₂	"	4	33.8"
M ₁₃	"	4	30.11"
M ₁₄	"	4	40.72"
M ₁₅	"	2	40.0"
M ₁₆	"	4	25.42"
M ₁₇	"	4	34.32"
M ₁₈	"	4	23.82"
M ₁₉	"	4	30.22"
M ₂₀	"	4	48.02"
M ₂₁	"	4	38.42"
M ₂₂	"	4	33.10"
M ₂₃	"	4	30.10"
M ₂₄	"	4	27.6"
L ₁	"	8	39.0"
L ₂	"	8	6.8"
L ₃	"	4	40.0"
L ₄	"	4	24.1"
L ₅	"	2	20.0"
L ₆	"	4	15.7"
L ₇	"	2	30.0"
L ₈	"	4	9.0"
L ₉	"	2	36.8"
L ₁₀	"	2	41.0"
L ₁₁	"	2	35.6"
L ₁₂	"	2	29.6"
L ₁₃	"	2	23.6"
L ₁₄	"	2	18.0"
K	1"	8	25.11"

DETAIL OF SUPERSTRUCTURE
STANDARD
CONCRETE CANTILEVER BRIDGE
LENGTH 118' 6" ROADWAY 20'
LOADING T-15
GALLIPOLIS-JACKSON ROAD
OVER RACCOON CR. STA. 311+72.25
STATE HIGHWAY DEPARTMENT
COLUMBUS OHIO
Feb. 1920 BUREAU OF BRIDGES

SUMMARY OF QUANTITIES

STRUCTURES UNDER TWENTY FEET.

STATION	TYPE	SIZE	Excavation	Concrete CuYds.			Steel	Railing	Vitrified Pipe				Piling	REMARKS
			cu.yds	1:2:4	1:2½:5	1:3:6	Lbs.	Lin.Ft.	12-inch	15-inch	18-inch	24 inch	Lin.Ft.	
1+90	V.P. Enc.	12'x32'	5	2.0		3.2	45		32					Standard
18+60	V.P. Enc.	18'x28'	7	2.7		4.0	55				28			Standard remove 12" V.P.
29+77	Con. Slab	8'x5'	15	2.1	13.1	7.7	230	20						Standard 4.5 extension on left 4 wing walls
40+10	V.P. Enc.	18'x18'	6	3.3		2.5	55				18			Standard side road
49+20	V.P. Enc.	12'x30'	5	2.0		3.0	45		30					Standard
50+93	V.P. Enc.	18'x40'	6	2.7		5.8	55				40			Standard
54+50	V.P. Enc.	12'x44'	9	2.7		4.5	30		44					Standard hill side
60+05	Con. Box	3'x5'x39'	26	4.2	44.4		370							Special Standard cattle pass forward W.W. 30' long
70+05	V.P. Enc.	18'x28'	7	2.7		4.0	55				28			Standard
74+40	V.P. Enc.	12'x30'	6	2.0		3.0	45		30					Standard
77+82	V.P. Enc.	12'x32'	9	2.0		3.2	45		32					Standard
80+55.3	V.P. Enc.	12'x28'	6	2.0		2.8	45		28					Standard
98+52	Con. Box	4'x3'x37'	20	18.8			975							Standard remove 3' boiler
99+15	V.P. Enc.	12'x14'	5	2.6		1.3	45		14					Standard side road
115+16	Con. Box	4'x3'x32'	20	7.0			850							Standard
152+00	V.P. Enc.	15'x28'	7	2.3		3.4	50			28				Standard
156+69	Con. Box	3'x3'x40'	18	17.5			890							Standard 45° with road remove old boiler
159+27	V.P. Enc.	24'x30'	8	3.5		5.8	75					30		Standard remove 16'x20' culvert
165+65	V.P. Enc.	18'x34'	7	2.7		4.9	55				34			Standard remove 12'x29' V.P.
169+30	V.P. Enc.	18'x30'	7	2.7		4.3	55				30			Standard remove 15'x26' V.P.
177+60	Con. Box	4'x3'x28'	20	15.6			750							Standard remove 4'x4'x16" Wood Culvert
184+10.3	V.P. Enc.	18'x28'	6	2.7		4.0	55				28			Standard
192+55	V.P. Enc.	18'x28'	8	2.7		4.0	55				28			Standard
200+77	Con. Slab	18'x3½'x20'	30	22.0	14.6	10.9	2650	40						Standard remove 13'6" span
207+70	V.P. Enc.	15'x30'	6	2.3		3.6	50			30				Standard
224+75	Con. Slab	20'x5'x20'	30	22.2	22.9	13.3	2730	44						Standard remove 16'x20' Wood Bridge
235+40	V.P. Enc.	18'x38'	13	2.7		5.5	55				38			Standard 60° skew
240+00	V.P. Enc.	24'x28'	8	3.5		5.3	75					28		Standard remove 12'x24' V.P.
248+95	V.P. Enc.	18'x32'	10	2.7		4.6	55				32			Standard remove 18'x24' V.P.
264+39	Con. Box	3'x3'x8'	5	8.0			230							Standard 8' extension on left 2 wing walls
269+72	V.P. Enc.	18'x30'	8	2.7		4.3	55				30			Standard remove 18'x22' V.P.
276+35	Con. Box	3'x3'	4	2.9			45							Standard head wall on left
295+77	V.P. Enc.	24'x38'	15	3.5		7.4	75					38		Standard remove 18'x25' V.P.
319+45	V.P. Enc.	18'x28'	5	2.7		4.0	55				28			Standard
322+95	V.P. Enc.	12'x14'	5	2.6		1.3	45		14					Standard side road
328+40	V.P. Enc.	24'x30'	8	3.5		5.8	75					30		Standard remove 30'x20' boiler
TOTAL OF QUANTITIES			380	99.8	95.0	137.4	11125	104	224	58	362	126		
STRUCTURES OVER TWENTY FEET														
311+72.25	CONCRETE CANTILEVER	118'6" x 20'0"	300	183	190		45800						1280	STANDARD T-15 LOADING Old Autments to be used
TOTAL OF QUANTITIES			300	183	190		45800						1280	
GRAND TOTAL OF QUANTITIES														