FEDERAL ROAD DIST. No.	STATE	FED. AID PROJECT No.	FISCAL YEAR
10	OHIO		

1/21

I.C.H. 130 SEC. E-2
ALLEN COUNTY

STATE OF OHIO

DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS

DIVISION OF HIGHWAYS

BUREAU OF CONSTRUCTION

LIMA – BELLEFONTAINE ROAD

I.C.H. 130 SEC. E-2 PET. No. 4615

ALLEN COUNTY – PERRY & AUGLAIZE TOWNSHIPS

JULY 1923

The Standard Specifications of the State of Ohio, Division of Highways, in force on date of contract will govern this improvement.

We, the Commissioners of Allen County hereby approve these plans, and certify that the right-of-way, sixty feet wide is available for the construction, maintenance, and repair of the proposed improvement.

O. E. Craig
A. J. Gray
J. W. Thompson

Date 1/21 1923

LOCATION PLAN

1 3/4 1/2 1/4 0

SCALE OF MILES

Portion to be improved

Detour roads

— INDEX —

Title page
Typical sections
Plan & profile
Cross sections
Structural plans
Summary sheet

Approved Chas. Ash
Date 1-14-23 Resident Engineer

Approved F. A. Dawn
Date 1-28-24 Division Engineer

Approved G. F. Ahlesinger
Date 1-30-24 State Highway Engineer

Approved S. A. Boulay
Date 1-30-24 Director of Highways & Public Works

Recommended for Approval
Date District Engineer
Bureau of Public Roads

Recommended for Approval
Date Chief Engineer
Bureau of Public Roads

Approved
Date Chief of Bureau

FEB 27 1998
ARCHIVE

102

ALLEN — 130 — E-2
1924

FEDERAL ROAD DIST No.	STATE	FEDERAL AID PROJECT No.	FISCAL YEAR
	OHIO		

2/21

I.C.H 130 SEC-E-2

ALLEN COUNTY.

TYPICAL SECTIONS

CROSS SECTIONS FILLS

CROSS SECTIONS CUTS

TYPE "A"
ASPHALTIC CONCRETE WILLITE TYPE

Excavation 888.6 Cu.yds
Borrow 64 Cu.yds.

TYPE "B"
KENTUCKY ROCK

Excavation 3050 Cu.yds.
Borrow 64 Cu.yds.

TYPE "C"
BRICK

Excavation 10966 Cu.yds.
Borrow 64 Cu.yds.

FEB 27 1998
20070002

FED RD DIST. No.	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO		1923

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I.C.H 130 SEC-E-2
ALLEN COUNTY

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ARCHIVE

FED RD DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO		1923

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I.C.H 130 SEC-E-2
ALLEN COUNTY

LEFT				RIGHT	
EDGE OF PAVEMENT	WIDTH	STATION	GRADE EL.	WIDTH	EDGE OF PAVEMENT
976.46	8.00	207+32.8	976.71	8.00	976.46
976.80	8.00	207+57.8	976.86	8.53	976.61
977.35	8.00	207+82.8	977.01	9.52	976.76
977.79	8.00	208+07.8	977.16	10.40	976.91
978.24	8.00	208+32.8	977.31	10.80	977.06
978.39	8.00	208+57.8	977.46	10.80	977.21
978.53	8.00	208+82.8	977.60	10.80	977.35
978.57	8.00	208+95.2	977.64	10.80	977.39
978.36	8.00	209+20.2	977.73	10.40	977.48
978.15	8.00	209+45.2	977.81	9.52	977.56
977.90	8.00	209+70.2	977.86	8.53	977.61
977.65	8.00	209+82.2	977.90	8.00	977.65
31.06 Sq yds extra pavement.					

B.M. Rail Road Spike Sycamore Left. Looks like an old B.M. Sta 180+25 Elev 959.72.

B.M. Oak tree Right of Sta 184+29 Elev 963.36

B.M. Bottom Corner Strip N.E Corner House on Right of 189+50 Elev 969.14

B.M. East end stone door sill at School House Sta 198+00 Elev 973.47

B.M. Rail Road Spike in West Gate Post on Right of ℄ Sta 208+60 Elev 978.33

Exc 398.2 Cu Yds
Emb + 20% 417.2 Cu Yds
Borrow 19 Cu Yds

Exc 391.7 Cu Yds
Emb + 20% 389.7 Cu Yds
Waste 2 Cu Yds

Exc 479.9 Cu Yds
Emb + 20% 488.9 Cu Yds
Borrow 9 Cu Yds

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FED RD DIST No.	STATE	FED AID PROJECT	FISCAL YEAR
10	OH10		1923

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I.C.H.130 SEC.E-2
ALLEN COUNTY

FEB 27 1998

FED RD DIST No	STATE	FEDAID PROJECT	FISCAL YEAR
10	OHIO		1923

6
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I.C.H 130 SEC-E-2
ALLEN COUNTY

B.M. Corner Strip
N.E. Corner Residence
R of 243+00
Elev 997.48

B.M. Spike in
anchor post wit
post to 249+19
Elev 1000.01

B.M. Rail Road
Spike in Maple
on L of 255+90
Elev 1004.36

B.M. Bottom
corner strip, S.W
corner residence
Left of 259+50
Elev 1004.15

B.M. Oak tree
Right of 265+10
Elev 992.37

991.37 992.18 993.09 994.99 995.90 995.80 996.71 997.62 998.53 999.30 999.81 1000.18 1000.56 1001.00 1001.72 1003.36 1004.16 1003.63 1003.12 1002.31 1001.07 999.54 998.09 996.10 994.48 993.40 992.34 990.14 987.40 984.20 981.44

Exc 681.2 Cu Yds
Emb +20% 691.2 Cu Yds
Borrow 10 Cu Yds.

Exc 671.8 Cu Yds
Emb +20% 629.7 Cu Yds
Waste 42 Cu Yds

990.51 991.53 992.48 993.35 994.12 994.86 995.92 996.85 997.73 999.31 999.07 999.04 999.44 1000.26 1000.70 1002.87 1003.57 1002.57 1002.07 1002.13 1000.37 998.93 997.37 994.53 993.40 992.86 991.88 989.55 986.65 982.85 980.44

240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270

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FED RD DIST. No.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1923

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21

I.C.H. 130 SEC-E-2
ALLEN COUNTY.

FEB 27 1998
Con 70007

FED RD DIST. No.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1923

8
2.1

I.C.H 130 SEC-E-2
ALLEN COUNTY.

LEFT EDGE OF PAVEMENT	WIDTH	STATION	GRADE EL.	RIGHT WIDTH	EDGE OF PAVEMENT
938.95	8.00	302+041	939.20	8.00	938.95
939.21	8.00	302+241	939.15	8.75	938.90
939.44	8.00	302+541	939.09	10.16	938.84
939.75	8.00	302+791	939.06	11.43	938.81
940.06	8.00	303+041	935.05	12.00	938.80
940.07	8.00	303+246	939.06	12.00	938.81
939.81	8.00	303+496	939.12	11.43	938.87
939.56	8.00	303+746	939.18	10.16	938.93
939.31	8.00	303+996	939.25	8.75	939.00
939.06	8.00	304+246	939.31	8.00	939.06
54.3 sq yds extra pavement					

ARCHIVE
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ARCHIVE Box 70-008

FED RD DIST. No.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1923

8
2.1

I.C.H 130 SEC-E-2
ALLEN COUNTY.

LEFT				RIGHT	
EDGE OF PAVEMENT	WIDTH	STATION	GRADE EL.	WIDTH	EDGE OF PAVEMENT
938.95	8.00	302+04	939.20	8.00	938.95
939.21	8.00	302+29	939.15	8.75	938.90
939.44	8.00	302+54	939.09	10.16	938.84
939.75	8.00	302+79	939.06	11.43	938.81
940.06	8.00	303+04	939.05	12.00	938.80
940.07	8.00	303+24.6	939.06	12.00	938.81
939.81	8.00	303+49.6	939.12	11.43	938.87
939.56	8.00	303+74.6	939.18	10.16	938.93
939.31	8.00	303+99.6	939.25	8.75	939.00
939.06	8.00	304+24.6	939.31	8.00	939.06
54.3 sq yds extra pavement					

ARCHIVE
FEB 27 1996
ARCHIVE Box 70-008

FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR	
10	OHIO		1923.	9/21

I.C.H. 130 SEC. E-2
ALLEN CO.

Upper figures-elevations crown finished road
Lower figures-surface elevations, center line survey

End Areas Exc.	End Areas Emb	Cu Yds Exc	Cu Yds Emb	
6.5	16.7			
		86.1	30.9	
40.0	.0			
		105.0	7.8	
16.7	4.2			
		44.8	51.9	
7.5	23.8			
		53.1	55.2	
21.2	6.0			
		73.0	23.7	
18.2	6.8			
		50.4	32.6	
9.0	10.8			
		34.3	53.0	
9.5	18.0			
		35.2	67.6	
9.5	18.5			
		38.9	63.6	
11.5	15.5			
		46.3	46.3	
13.5	9.5			
		39.8	29.6	
8.0	6.5			

Sta 163+00 to Sta 153+00 Exc. 520.8 Cu Yds. Emb 430.7

End Areas Exc.	End Areas Emb	Cu Yds Exc	Cu Yds Emb	
14.7	13.3			
		60.0	50.0	
17.7	13.7			
		54.4	63.0	
11.7	20.3			
		40.7	63.0	
10.3	13.7			
		45.0	42.6	
14.0	9.3			
		61.1	27.0	
19.0	5.3			
		50.9	26.5	
8.5	9.0			
		30.0	40.2	
7.7	12.7			
		32.8	39.6	
10.0	8.7			
		50.9	23.9	
11.3	4.2			
		45.0	26.8	
13.0	10.3			
		59.3	27.4	
19.0	4.5			
		68.5	24.4	
18.0	8.7			
		49.1	31.9	
8.5	8.5			
		51.9	26.5	
19.5	5.8			
		48.5	24.6	
6.7	7.5			
		21.1	33.3	
4.7	10.5			
		11.5	40.7	
1.5	11.5			
		18.0	53.8	
8.2	20.8			
		27.2	69.4	
6.5	16.7			

Sta. 173+00 to Sta 181+00 Exc. 356.4 Cu Yds Emb 289.6 Cu Yds.

Sta. 173+00 Exc 441.2 Cu Yds. Emb 368.9 Cu Yds.

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ARCHIVE Box 2009

FED. RD. DIST. NO	STATE	FED. AID PROJECT	FISCIAL YEAR	
10	OHIO		1923	10 / 21

I.C.H. 130 SEC. E
ALLEN CO.

Upper figures-elevations crown finished road
Lower figures-surface elevations center line survey

End Areas Exc	End Areas Emb	Cu Yds Exc	Cu Yds Emb	
14.5	7.5			
		54.6	27.4	
15.0	7.3			
		44.0	34.8	
9.0	11.5			
		34.3	40.4	
9.5	10.3			
		58.9	31.5	
22.3	6.7			
		63.5	31.5	
12.0	10.3			
		48.7	27.4	
14.3	4.5			
		69.1	17.0	
23.0	4.7			
		59.8	29.6	
9.3	11.3			
		31.5	50.6	
7.7	16.0			
		27.2	50.6	
7.0	11.3			
		33.9	27.4	
11.3	3.5			
		27.4	44.8	
3.5	20.7			
		30.6	45.2	
27.0	3.7			
		72.2	25.4	
12.0	10.0			
		45.0	37.0	
12.3	10.0			
		44.1	37.0	
11.5	10.0			
		45.9	40.2	
13.3	11.7			
		37.0	46.3	
6.7	13.3			
		39.6	49.3	

Sta 181+00 to Sta 189+00 Exc 398.2 Cu Yds Emb 348.2 Cu Yds Sta 189+00 to Sta 198+00 Exc 391.7 Cu Yds Emb 324.1 Cu Yds

End Areas Exc	End Areas Emb	Cu Yds Exc	Cu Yds Emb	
10.5	7.5			
		48.5	23.1	
15.7	5.0			
		50.0	19.8	
11.3	5.7			
		33.9	22.6	
7.0	6.5			
		28.7	25.9	
8.5	7.5			
		26.3	35.6	
5.7	11.7			
		18.0	51.3	
4.0	16.0			
		53.7	34.6	
20.3	4.0			
		60.4	18.5	
12.3	6.0			
		34.8	45.6	
6.5	17.0			
		12.7	10.6	
6.0	6.7			
		10.4	9.5	
6.5	4.7			
		12.3	5.8	
12.0	2.7			
		44.2	7.4	
35.3	2.7			
		83.2	50.4	
8.0	24.5			
		29.6	83.3	
8.0	20.5			
		44.7	46.3	
14.0	4.5			
		46.3	28.7	
11.0	11.0			
		38.9	35.7	
10.0	8.3			
		45.4	29.3	

Sta 198+00 to Sta 208+00 Exc 479.9 Cu Yds Emb 407.8 Cu Yds Sta 208+00 to Sta 214+17.6 Exc 272.8 Cu Yds Emb 218.9 Cu Yds

FEB 27 1996

FED. RD DIST. NO	STATE	FED. AID PROJECT	FISCAL YEAR	11/21

I.C.H. 130 SEC. E-2
ALLEN CO

Upper figures elevations crown of finished road
Lower figures - elevations center line survey

End Areas Exc	End Areas Emb	Cu Yds Exc	Cu Yds Emb	
10.3	9.3			
		42.6	30.7	
12.7	7.3			
		38.3	32.0	
8.0	10.0			
		26.5	40.2	
6.3	11.7			
		33.0	38.9	
11.7	9.3			
		46.7	33.9	
13.5	9.0			
		43.5	37.6	
10.0	11.3			
		40.2	37.6	
11.7	9.0			
		52.6	16.7	
16.7	0.0			
		56.9	1.48	Sta 226+00 to Sta 240+00 Exc 543.3 Cu Yds. Emb 451.5 Cu Yds
7.7	8.0			
		30.4	32.0	
8.7	9.3			
		30.4	46.3	
7.7	15.7			
		26.7	67.4	
6.7	20.7			
		30.9	66.1	
10.0	15.0			
		42.0	44.4	
12.7	9.0			
		35.9	43.1	
6.7	14.3			
		40.2	37.6	
15.0	6.0			
		57.4	20.4	
16.0	5.0			
		51.3	19.4	
11.7	5.5			
		41.1	24.1	Sta 214+17.6 to 226+00 Exc 486.6 Cu Yds. Emb 413.9 Cu Yds

End Areas Exc	End Areas Emb	Cu Yds Exc	Cu Yds Emb	
49.5	0.0			
		94.4	2.4	
50.3	1.3			
		114.8	31.5	
11.7	15.7			
		39.3	47.0	
9.5	9.7			
		41.1	43.9	
12.7	14.0			
		36.5	61.1	
7.0	19.0			
		24.6	63.0	
6.3	15.0			
		18.9	27.8	
36.3	0.0			
		96.3	16.7	
15.7	9.0			
		43.0	38.0	
7.5	11.5			
		31.1	42.6	
9.3	11.5			
		40.0	44.8	
12.3	12.7			
		42.6	46.7	
10.7	12.5			
		58.1	35.6	
20.7	6.7			
		62.4	30.9	
13.0	10.0			
		46.9	39.4	
12.3	11.3			
		40.4	38.9	
9.5	9.7			
		33.7	33.7	
8.7	8.5			
		32.8	27.8	
9.0	6.5			
		35.7	29.3	Sta 240+00 to Sta 255+00 Exc 681.2 Cu Yds Emb 576.4 Cu Yds

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FED. RD. DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1923

12/21

I.C.H. 130 SEC-E-2
ALLEN COUNTY

Upper figures-elevations, crown of finished road
Lower figures-elevations, center line of survey

End Areas Exc	End Areas Emb	Cu Yds Exc	Cu Yds Emb	
15.0	3.5			
		43.5	38.9	
8.5	17.5			
		27.8	45.9	
6.5	7.3			
		22.2	32.6	
5.5	10.3			
		32.4	38.9	
12.0	10.7			
		43.1	66.1	
11.3	25.0			
		42.6	63.0	
11.7	9.0			
		50.7	29.1	
15.7	6.7			
		58.1	18.9	
15.7	3.5			
		42.6	20.0	
7.3	7.3			
		22.8	50.6	
5.0	20.0			
		15.7	88.0	
3.5	27.5			
		35.2	60.7	
15.5	5.3			
		51.9	20.0	
12.5	5.5			
		31.5	22.2	
11.5	6.5			
		53.7	16.7	
32.5	2.5			
		70.7	29.6	
5.7	13.5			
		22.2	57.4	
6.3	17.5			
		7.4	39.3	
3.0	3.7			
		73.9	6.9	

Sta. 255+00 to Sta 269+00 Exc 671.8 Cu Yds Emb 524.8 Sta 269+00 to Sta 284+00 Exc 699.9 Cu Yds Emb

End Areas Exc	End Areas Emb	Cu Yds Exc.	Cu Yds Emb
5.8	22.5		
		26.5	74.4
8.5	17.7		
		27.6	53.7
6.4	11.3		
		25.9	52.4
7.6	17.0		
		28.3	86.5
7.7	29.7		
		21.7	129.1
4.0	40.0		
		43.5	82.2
19.5	4.7		
		57.8	22.6
11.7	7.5		
		75.6	55.6
29.1	3.6		
		78.9	13.1
13.5	3.5		
		43.5	17.8
10.0	14.3		
		69.8	28.9
27.7	1.3		
		79.1	9.3
15.0	3.7		
		38.9	30.0
6.0	12.5		
		66.7	30.6
30.0	4.0		
		69.8	19.8
7.7	6.7		
		24.8	68.0
5.7	30.0		
		24.4	9.2
7.5	20.0		
		50.0	37.0
19.5	0.0		
		63.9	6.5

Sta 284+00 to Sta 299+00 Exc 924.7 Cu Yds Emb 784.1 Cu Yds

576.1 Cu Yds.

FEB 27 1995
ARCHIVE

FED. RD DIST NO	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO		1923

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I.C.H. 130 ALLEN

SEC-E-2 COUNTY

Upper figures - elevations crown finished road
Lower figures - surface elevations. center line survey

Station	Upper (crown)	Lower (surface)	End Areas Exc	End Areas Emb	Cu. Yds Exc	Cu. Yds Emb
	945.38		0	20.2		
311+00	943.94	946.74	39.0	0	72.2	37.4
310+00	947.17	946.61	48.5	0	51.0	0
309+68.5	947.37	945.70	0	24.7	61.5	31.3
309+00	944.47	942.85	7.0	2.9	13.0	51.1
308+00	942.07	940.65	19.9	0	49.8	5.4
307+00	941.07	939.75	29.9	0	92.2	0
306+00	940.76	939.50	12.2	.9	78.0	1.7
305+00	940.56	939.25	27.0	0	72.6	1.7
304+00	939.86	939.65	76.5	0	191.7	0
303+00	939.66	939.20	53.7	0	241.1	0
302+00	939.78	939.40	24.4	2.9	44.6	5.4
301+00	939.18	939.60	24.2	2.2	90.0	9.4
300+00	939.38	939.87	24.9	4.6	90.9	12.5
299+00	939.58	940.60	61.5	0	160.0	8.5
298+00	940.68	941.40	21.0	3.1	130.4	5.7
297+00	940.98	942.20	17.0	4.4	70.4	13.9
296+00	941.40	943.00	8.0	6.0	46.3	19.3
295+00	942.10	944.38	4.1	27.5	22.4	62.0
294+00	942.80				18.5	92.6

Sta 299+00 to Sta 319+00 Exc 1382.8 Cu Yds Emb 1037.0 Cu Yds

Station	Upper (crown)	Lower (surface)	End Areas Exc	End Areas Emb	Cu Yds Exc	Cu Yds Emb
	945.60		27.0	10.0		
330+00	945.82	945.63	4.5	18.7	58.3	53.1
329+00	945.58	944.73	3.7	16.2	15.2	64.6
328+00	945.12	944.53	4.5	18.6	15.2	64.4
327+00	944.95	944.23	7.2	9.9	21.7	52.8
326+00	944.66	944.03	11.2	3.0	34.1	23.9
325+00	944.32	943.88	23.7	9.5	64.6	23.1
324+00	943.88	943.41	24.8	6.0	89.8	28.7
323+00	943.98	943.68	28.6	9.5	98.9	28.9
322+00	942.84	943.18	23.0	12.1	95.6	40.2
321+00	942.47	942.38	16.2	12.5	72.6	45.6
320+00	942.21	941.88	2.1	33.4	68.9	85.0
319+00	942.39	941.18	2.6	20.0	8.7	98.9
318+00	942.78	942.08	16.0	29.0	34.4	90.7
317+00	942.05	941.86	1.0	33.7	31.5	116.1
316+00	941.13	940.26	1.5	42.0	4.6	140.2
315+00	941.00	940.46	0	43.6	2.8	158.5
314+00	941.00	940.36	10.2	17.4	18.9	113.0
313+00	941.54	940.54	3.9	25.4	26.1	79.3
312+00	943.19	941.74			7.2	84.4

Sta 319+00 to 330+00 Exc 634.9 Cu Yds Emb 510.3 Cu Yds

HOLDING
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FED RD DIST No	STATE	FED AID PROJECT	FISCAL YEAR
	OHIO		1923

14/21

I.C.H. 130 ALLEN SEC-E-2 COUNTY.

Present Culvert - Catch-basin 6" Draintile under Road
Proposed - 28 feet of 12" C.I.P
One N°2 Catch-basin
One Standard Side-road Headwall

Material C.I.P
Size 12"
Length 28'-0"
Work required
Remove 6" drain tile and catch-basin
Construct 12" C.I.P. Culvert
One #2 Catch-Basin
One Side road headwall
Standard plans

Estimate of Quantities
Excavation 12 Cu Yds
12" C.I.P. 28 Lin.ft
No 2 Catch-basin 1
1-2-4 Concrete 1.3 Cu.yds
Reinf Steel 30. lbs.

Sta 153+59.8

Present Culvert - 30" C.I.P & Headwalls
Proposed - Plaster Conc. wall
Place V.S.P.

Material C.I.P.
Size 30"
Length 31.5'
Work required
Plaster Conc. headwall
Place V.S.P.

Estimate of Quantities
Plaster Conc. walls 70.5 sq ft
V.S.P 12" 2 Lin.ft.

Sta 165+61

Present Structure - Loose stone head wall
Proposed - Side Road Headwall
Standard plans

168+50

Material Conc.
Size 12"
Length
Work required
Construct one Standard
Side Road Headwall

Estimate of Quantities
Excavation 3 Cu.yds.
1-2-4 Concrete 1.3 Cu.yds.
Reinf Steel 30. lbs.
V.S.P. 12" 2 Lin.ft.

Sta 168+50

Present Culvert 2½' x 2' Stone box
Proposed - 32 feet 24" C.I.P
Standard Headwalls

Material C.I.P
Size 18"
Length 32"
Work Required
Remove stone culvert
Construct 18" C.I.P. Culvert
and Standard Headwalls.

Estimate of Quantities
Excavation 16 Cu yds
18" C.I.P. 32 Lin.ft
1-2-4 Concrete 1.9 Cu.yds
Reinf steel 50 lbs

Sta 190+91

Present Culvert - 12" tile
Proposed - 50 feet 12 C.I.P
One No 2 Catch-basin
Standard plans

Note: Place C.I.P. at grade of present tile

Estimate of Quantities
Excavation 18 Cu yds
12" C.I.P. 50 Lin. feet
One No 2 C.B. 1
12" V.S.P 2 Lin feet

Material C.I.P.
Size 16"
Length 50'
Work required
Remove 50' of 12" tile
Place 50'-12" C.I.P.
Construct No 2 Catch basin
Standard Plans

Sta 191+08

Present Culvert: 25.6'-30" V.S.P.
Proposed: Relay 25.6'-30" V.S.P.
Place 6'-6" New 30" V.S.P.
Standard Headwalls

Material C.I.P.
Size 30'
Length 32
Work required
Relay 25'-6"-30" C.I.P.
Place 6'-6" 30" C.I.P.
Construct Standard Headwalls

Estimate of Quantities
Excavation 30. Cu yds.
Relay 25'-6"-30 C.I.P. 25'-6" Lin feet
30" C.I.P. 6'-6" Lin feet
1-2-4 Concrete 3.6 Cu.yds
Reinf steel 80. lbs.

Sta 214+17.8

FEB 27 1998

FED RD DIST No	STATE	FED AID PROJECT	FISCAL YEAR
	OHIO		1923

15
21

I.C.H. 130
ALLEN

SEC-E-2.
COUNTY.

Present Culvert-42' of 10" drain tile connecting two brick Catch-Basins
Proposed- 42' of 12" C.I.P. Standard No 2 Catch-basins

Material C.I.P.
Size 12"
Length 42'-0"
Work required
Remove 42' of 10" tile
Place 42' of 12" C.I.P.
Construct Two No 2 Catch-basins

Estimate of Quantities

Excaration	18 Cu Yds
12" C.I.P.	42 Lin ft.
10" V.S.P.	4 Lin ft.
12" V.S.P.	2 Lin ft.
No 2 Catch-basins	2

Sta 215+06

Present-25' of 10" tile
Proposed 28' of 12" C.I.P
2-Standard Side Road Headwalls

Note- Line walls to conform with intersecting roadway

Note- Same amount of concrete as in standard sideroad headwalls

Material C.I.P.
Size 12"
Length 28'-0"
Work required
Remove 25' of 10" tile
Place 28' of C.I.P.
Construct 2 standard sideroad Headwalls

Estimate of Quantities

Excavation	15 Cu Yds
12" C.I.P.	28 Lin ft
1-2-4 Conc	2.6 Cu Yds
Reinf Steel	60 lbs

Sta 243+67±

Present Culvert-12"x12"-32' oldstone culvert.
Proposed- 32' of 16" C.I.P and 2 Standard Head Walls

Material C.I.P.
Size 16"
Length 32'-0"
Work required
Remove old 12"x12"-32' stone culvert.
Place 32' of 16" C.I.P.
Construct 2 standard headwalls

Estimate of Quantities

Excavation	12 Cu Yds
16" C.I.P.	32 Lin ft.
1-2-4 Conc.	1.7 Cu Yds
Reinf. Steel	50 lbs.

Sta 278+33

Present-24' of 24" C.I.P.
Proposed-34' of 24" C.I.P
Standard Headwalls

Material C.I.P
Size 24"
Length 34'
Work required
Reloy 24' of 24" C.I.P.
Place 10' of 24" C.I.P.
Construct one No 2 C.B. and one Std Head Wall

Estimate of Quantities

Excavation	27 Cu Yds
Reloy 24" C.I.P.	24 Lin ft
24" C.I.P new	10 Lin ft
1-2-4 Conc	1.4 Cu Yds
Reinf. steel	35 lbs
No 2 C.B.	1

Sta 227+52

Present –
Proposed- 36' of 12" C.I.P.
2 standard side road Headwalls

Note- Line walls to conform with intersecting roadway

Note- Same amount of concrete as in standard side road headwalls.

Material C.I.P.
Size 12"
Length 36'-0"
Work required
Place 36' of 12" C.I.P.
Construct 2 standard sideroad Headwalls

Estimate of Quantities

Excaration	15 Cu Yds
12" C.I.P.	36 Lin ft
1-2-4 Conc	2.6 Cu. Yds
Reinf. Steel	60 lbs

Sta 259+29

Present –
Proposed- 1 #2 Catch Basin
2-12" V.S.P. Stubs

Material V.S.P.
Size 12"
Length 4 Lin ft.
Work required
Place 4' of 12" V.S.P.
Construct 1 No 2 Catch basin

Estimate of Quantities

Excaration	4 Cu yds.
12" V.S.P	4 Lin ft.
No 2 Catch-basin	1

Sta 201+50

FEB 27 1998
Contracts

FED R'D DIST NO	STATE	FED AID PROJECT	FISCAL YEAR	16 / 21
	OHIO		1923	

I.C.H. 130 SEC-E-2
ALLEN COUNTY.

FEB 27 1998

Present culvert- Side road bridge 3'x4½' skewed and 8" Cor I.P. culvert
Proposed- Concrete slab top culvert and 29' feet of 12" C.I.P. one Std Headwall

Material C.I.P. and Concrete culvert
Size 12" C.I.P. and 5' span of culvert
Work required-
Remove old stone bridge and 8" Cor I.P.
Place 5' span slab top culvert on side road
Place 29 feet of 12" C.I.P. intersecting bridge wing and Std headwall as shown on plan

Estimate of Quantities

Excavation	50 Cu Yds
12" C.I.P	29'-0" Lin ft
1-2-4 Concrete	7.3 Cu Yds
1-2½-5 Concrete	15.2 Cu Yds
Reinf Steel	482 lbs

STEEL LIST

No	Mark	Size	Spacing	Length	Weight
41	C	⅝" ▫	7½"	7'-6"	410
6	E	½"	2'-0"	16'-6"	112
16	F	½" ▫	—	4-9	60
				Total	482

FED RD DIST	STATE	FED AID PROJECT	FISCAL YEAR
	OHIO		1923

17
21

I.C.H 130 SEC E2
ALLEN COUNTY

Present – 32' of 24" concrete pipe and existing headwalls
Proposed – Relay 32' of 24" concrete pipe and encase in concrete

Material	Conc pipe
Size	24"
Length	32'-0"

Work required
Relay 32' of 24" concrete pipe and encase in 5" of concrete

Estimate of Quantities
Excavation 14 Cu Yds
1-3-6 Concrete 5.8 Cu Yds

Sta 302+46

Present – 2 old concrete Catch basin
Proposed – Construct 4-No 1 Catch basins and place 72' of V.S.P. encased in concrete & 4 10" V.S.P Stubs

Material	V.S.P
Size	10"
Length	72"

Work required.
Remove old catch basin and construct 4-No 1 Standard Catch basins. Place 72'-10" V.S.P encased in 5" of 1-3-6 concrete. Place 2-10" stubs and 2-8" Stubs

Estimate of Quantities

Excavation	29 Cu Yds
10" V.S.P	72 Lin ft
10" Stubs	4 Lin ft
8" Stubs	4 Lin ft
No 1 Catch Basins	4
1-3-6 Concrete	5.2 Cu Yds

Sta 306+38

Present – 16'x17' overflow bridge
Proposed – 52'-30" C.I.P. and construct standard headwalls

Material	C.I.P
Size	30"
Length	52'-0"

Work required
Remove old overflow bridge and place 52'-30" C.I.P
Construct 2 standard headwalls

Estimate of Quantities

Excavation	20 Cu Yds
30" C.I.P	52 Lin ft
1-2-4 Concrete	3.6 Cu Yds
Reinf Steel	75 lbs

Sta. 313+50

Present – 2 old catch basins
Proposed – Construct 2-No 1 Catch Basins and place 50' of V.S.P encased in concrete & 2 V.S.P. stubs

Note – Place Catch basin 18' from ℄ of constructed road

Estimate of Quantities

Excavation	18 Cu Yds
10" V.S.P	48 Lin ft
1-10" V.S.P Stub	2 Lin ft
1-12" V.S.P Stub	2 Lin ft
No 1 Catch Basins	2
1-3-6 Concrete	3.5 Cu. yds

Material	V.S.P
Size	10"
Length	48'-0"

Work required
Remove old catch basins and construct 2 No 1 standard catch basins. and place 48' of V.S.P encased in 5" of 1-3-6 Concrete. Place 1-10" V.S.P Stub and 1-12" V.S.P. Stub

Sta 303+02.5

Present – 1 old concrete Catch basin
Proposed – Construct 2 No 1 Catch Basins 2-8" V.S.P Stubs

Material	VSP Stubs
Size	8"
Length	4'-0"

Work required
Remove old catch basin and construct 2-No 1-Std catch basins. Place 2-8" V.S.P stubs

Estimate of Quantities

Excavation	4 Cu Yds
2-V.S.P Stubs 8"	4 Lin ft
No 1 Std C.B.	2

Sta 309+50

Present – 45'-16" C.I.P.
Proposed – Relay 45' of C.I.P. and construct standard Side Road Headwalls

Material	C.I.P
Size	16"
Length	45'-0"

Work required
Relay 45'-16" C.I.P and construct 2 standard side road headwalls

Estimate of Quantities

Excavation	15 Cu Yds
16" C.I.P.	45 Lin ft
1-2-4 Concrete	3.3 Cu Yds
Reinf Steel	70 lbs

Sta 318+34.6

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FED R'D DIST NO	STATE	FED AID PROJECT	FISCAL YEAR
	OHIO		1923

18
2A

I.C.H. 130 SEC E2
ALLEN COUNTY

FEB 27 1998
ARCHIVE Contract 18
DISTRICT 1

Note:- All exposed surfaces to be rubbed with carborundum block untill all form marks are removed.
Add 5% hydrated lime to concrete mix

All edges to be champhered by 1" triangular strips.

SECTION D-D

HALF SECTION M-M

PART SECTION C-C
Showing Curb and Rail

STEEL LIST.

No	Mark	Size	Spacing	Length	Weight
49	C	½"ϕ	6¼"	18'-0"	1800
8	E	½"ϕ	2-0"	21'-6"	220
8	F	½"ϕ	—	18'-0"	96
16	K	½"ϕ	—	4'-0"	48
16	G	½"ϕ	—	3'-6	38
Total					2402#

ESTIMATE OF QUANTITIES

Excavation	170. Cu yds
1-2-4 Concrete	18.46 Cu yds
1-2½-5 Concrete	19.00 Cu yds
1-3-6 Concrete	9.6 Cu yds
Reinforcing steel	2402 lbs
Railing Type "C"	98 Lin.ft.

STANDARD SLAB BRIDGE
SPAN - 16'-0" H - 6'-0"
STATION - 298+33
For additional data see:-
Drawing No 302-1 Std.

Grade 940.33

FED ROAD DIST. NO.	STATE	FED AID PROJ NO	FISCAL YEAR
10	OHIO		1923

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I.C.H. 130 SEC. E-2
ALLEN COUNTY

Note:- A bars are to be placed in top of slab over B bars B and C bars are to be placed in bottom of slab and are to alternate at 5 1/2" ctrs all girder bars are to be lapped 4'-0" on the splice

QUARTER PLAN

HALF SECTION A-A

HALF END VIEW

Note:- Expansion plates are to be placed as shown on tree end

Note:- Corner on curbs to be rounded to conform to a 1" radius

Note:- Four layers of tar paper are to be placed on one abutment and at each wing of the substructure so as to entirely separate the girders & slab from abutment & wings and girders from wings on other abutment

HALF SIDE ELEVATION SHOWING GIRDER REINFORCEMENT

HALF LONGITUDINAL SECTION

Note:- all exposed surface to be rubbed with carborundrum block unless otherwise specified. Panels to be bush hammered as shown. Add 5% hydrated lime to concrete mix in ratio one sack of lime to twenty sacks of cement

Mark	a	b
M3	8'-2"	13'-6"
M4 & M6	7'-8"	18'-0"
M5	7'-5"	24'-6"
M7	7'-11"	31'-6"
N3	7'-8"	14'-6"
N4 & N6	7'-5"	20'-6"
N5 & N7	5'-5"	26'-6"

Mark	a	b
Q1 & 4	2'-1"	20'-3"
Q2	4'-10"	15'-0"
Q3	3'-7"	17'-6"

SECTION B-B

Mark	No.	Size	Length	Location	Remarks	Weight
				Girder Bars		
M1	2	1 1/8"	26'-3"			
M2	2	"	34'-3"		Straight	
M3	2	"	42'-3"		"	
M4	2	"	40'-3"		"	
M5	2	"	14'-6"		Bent	
M6	2	"	19'-0"		"	
M7	2	"	27'-0"		"	
M8	2	"	32-6"		"	
M9	2	"	18'-3"		"	
M10	2	"	19'-0"		"	
M11	2	"	27'-0"		"	
M12	2	1 1/8"	26'-3"		Straight	
N1	2	"	34'-3"		"	
N2	2	"	42'-3"		"	
N3	2	"	51'-3"		"	
N4	2	"	25'-3"		"	
N5	2	"	33'-0"		"	
N6	2	"	37'-9"		Bent	
N7	2	"	33'-0"		"	
N8	2	"	33'-0"		"	
N9	2	"	33'-6"		"	
N10	2	"	33'-6"		"	
N11	2	"	33'-6"		"	
N12	2	"	33'-6"		"	
N13	2	"	33'-6"		"	
N14	2	"	33'-6"		"	
N15	2	"	33'-6"		"	
N16	2	"	33'-6"		"	
N17	2	"	33'-6"		"	
N18	2	"	33'-3"		Straight	
N19	2	"	33'-3"		"	
S1	8	1/2"	14'-6"		Bent	
S2	8	"	15'-6"		"	
S3	8	"	16'-0"		"	
S4	8	"	17'-0"		"	
S5	8	"	18'-0"		"	
S6	6	"	19'-0"		"	

Mark	No.	Size	Length	Location	Remarks	Weight
A	50	1/4"	32'-0"	Slab Bars	Straight	
B1	25	"	21'-9"		"	
B2	25	"	42'-3"		"	
C1	26	"	25'-9"		Bent	
C2	26	"	36'-10"		"	
T	23	1/2"	27'-6"		Straight	
				Beam Bars		
Q1	8	1"	28'-6"		Bent	
Q2	8	"	28'-6"		"	
Q3	8	"	28'-6"		"	
Q4	8	"	28'-6"		"	
R1	8	"	34'-9"		"	
R2	8	"	31'-6"		"	
R3	8	"	33'-9"		"	
R4	8	"	34'-9"		"	
Sb	304	1/2"	5'-3"		"	

Estimate of Quantities

1-2-4 Concrete	115 Cu.yds.
Reinforcing steel	23500. Lbs
Structural Steel	880. Lbs.
Bush-hammering	392. Sq.ft.

SUPER STRUCTURE
STANDARD CONCRETE GIRDER BRIDGE
OVER
LITTLE AUGLAZE RIVER

SPAN 60'-0" ROADWAY 24'-0"

Drainage area 3.1 squ Mi. 3" Runoff used
10" fall per Mi Velocity 6.4 per sec.

Sta 317+42.6

Std. # G-60-24

PRODUCTION
FEB 27 1998
ARCHIVE Box 20019

FED RD DIST No	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO		1923

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I.C.H. 130 SEC-E-2
ALLEN COUNTY.

SUPERSTRUCTURE
60'x24' CONCRETE GIRDER BRIDGE
STANDARD PLAN NO. G-60-24

ESTIMATE OF QUANTITIES

SUPERSTRUCTURE
1-2-4 Concrete 115.0 Cu Yds
Reinforcing Steel 23,500 lbs
Structural Steel 880 lbs

SUBSTRUCTURE
1-2½-5 Concrete 86.1 Cu Yds
1-3-6 Concrete 29.7 Cu Yds
Excavation 845 Cu Yds

SUBSTRUCTURE
FOR
CONCRETE GIRDER BRIDGE
OVER LITTLE AUGLAIZE
SPAN 60'-0" ROADWAY 24'
STA. 317+42.6

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FED. RD. DIST.	STATE	FED. AID PROJ.	FISCAL YEAR
	OHIO		1923

21
21

I.C.H. 130 SEC E-2
ALLEN COUNTY

SUMMARY OF QUANTITIES

Sta	Type	Size	Excavation Cu.yd	Concrete Cu.yds 1-2-4	1-2½-5	1-3-6	Reinf. Steel Lbs.	Cast Iron Pipe Feet 12"	16"	18"	24"	30"	Vit Sewer Pipe Feet 12"	10"	8"			Struct. Steel Lbs.	Type 'G' Rail Feet	Catch Basin No.1.	No.2.	Bush Plaster Hamr Sq.ft.	Cont. wal Sq.ft	Relay C.I.P Feet 16	30"	Relay Conc. P. Feet 24"	Railing Type 'G' Feet	
STRUCTURES OVER 20 FEET																												
317+42±	Conc. Girder	60'x 24'	645	115.00	86.10	29.7	23500											880	98			392						Remove present bridge. Construct conc. Girder 60 x 24 Std
STRUCTURES 20 FEET AND UNDER																												
153+59±	C.I.P. Sideroad	12"x 28	12	1.3			30	28													1							Construct 12"x 28' C.I.P Culvert side-road headwall one No 2 C.B
165+61	C.I.P.	30"x 31±											2										70					Plaster conc. walls as per plan
168+50	Hd wall Side road	12"	3	1.3			30						2															Construct 1- Std side-road headwall Std plans.
190+91	C.I.P. Std	18"x 32'	16	1.9			50			32																		Construct 18"x 32' C.I.P. culvert with headwalls, std plans
191+08	C.I.P	12"x 50'	18					50					12								1							Construct one No 2 C.B. place 50' of 12" C.I.P.
201+50	No 2 std C.B.		4										4								1							Construct one No 2 C.B std. plans.
214+17±	C.I.P Std	30"x 32'	30	3.6			80					6±													25±			Relay old 30"x 25± C.I.P and place 6± new C.I.P 30" Std hdwls.
215+06	C.I.P & C.B.	12"x 42'	18										4	2							2							Construct 12"x 42' C.I.P. culvert and Std. No 2 C.B.
227+52	C.I.P.	24"x 34'	27	1.4			35				10										1							Relay old 24' C.I.P. and 10' of new C.I.P. Std hdwl. and C.B.
243+67±	C.I.P. Side-road	12"x 28'	15	2.6			60	28																				Construct 12"x 28' C.I.P. side-road Std plans
259+29	C.I.P Side road	12"x 36'	15	2.6			60	36																				Construct 12"x 36' C.I.P side-road Std. plans.
278+33	C.I.P Std	16"x 32	12	1.7			50		32																			Construct 16"x 32 C.I.P. Culvert with headwalls. Std. plans.
293+61±	Conc. slab & C.I.P	5' x 29'	50.	78	15.20		482	30	30																			Construct conc. Culvert & C.I.P. Culvert Std plans.
302+46	24" Conc. Culv	24"x 32'	14			5.8																				32		Relay 32' of 24" Conc. Pipe and encase in concrete.
303+02±	V.S.P. encased	10"x 50	18			3.5							2	52						2								Construct 10"x 50 V.S.P. Culv. encased & two No 1 C.B. Std.
306+38	V.S.P encased	10"x 72	29.			5.2								76	4					4								Construct 72' of 10" V.S.P. encased and four No. 1. C.B Std.
309+50	No 1. Std C.B.		4												4					2								Construct two No 1 Catch Basins Std plans.
313+50	C.I.P. Std	30"x 52'	20	3.6			75					52																Construct 30"x 52 C.I.P. Culv. Std headwalls
318+34±	C.I.P. Side road	16"x 45'	15	3.3			70																	45				Relay old 16"x 45 C.I.P. Construct side-road hdwls Std.
298+33	Conc. Slab	16 x 24	170	18.46	19.00	9.6	2402												98								98	Remove present bridge Construct 16'x 24' Std slab.
	Total		487	49.56	34.20	24.1	3424	171	32	32	10	58±	26	130	8			98	8	6		70	45	25±	32	98		

STRUCTURES FOR PRIVATE DRIVES

Sta	Tile Feet	10" Tile Feet	12" Tile Feet	10" 12" Corr. I.P. Feet	Excavation Cu.yds	Side of Road
164+27				16	5	R
172+00-173+57			157		46	L
173+65				16	5	L
180+67				16	5	R
182+60				16	5	L
189+78				16	5	R
198+00				16	5	R
202+90				16	5	L
218+68				16	5	R
220+70				16	5	L
220+95				16	5	R
220+78-221+63		90			30	L
232+42				16	5	L
242+46				16	5	R
242+54-243+18		64			20	R
273+40				16	6	L

ROADWAY AND PAVEMENT

Sta 153+00 to Sta 330+66.25 Length of section 17766.25 feet

TYPE-A

Excavation	8886	cu.yds
Borrow.	64	cu.yds
Shoulders and slopes.	17685	lin.ft
Loose stone. road approaches.	55	tons
2" Asphaltic conc. top course (Willite)	27616	Sq.yds
4" W. B. Mac. base course	27616	Sq.yds.
4" W.B. Mac. base course	27616	Sq.yds.
Concrete curb 10"x12"	35370	lin.ft
8" V.S.P.	600	lin.ft
10" V.S.P	660	lin.ft
12" V.S.P.	300	lin.ft
4" Conc. wearing surface, bridges	210	Sq.yds.

TYPE-B

Excavation.	9050	cu.yds
Borrow.	64	cu.yds
Shoulders and slopes.	17685	lin.ft
Loose stone. road approaches.	55	tons
1½" Kentucky rock course.	31546	sq.yds
4" W.B. Mac. base course.	33516	sq.yds
4" W.B. Mac. base course.	33516	sq.yds
8" V.S.P.	600	lin.ft
10" V.S.P.	660	lin.ft
12" V.S.P.	300	lin.ft.
4" Conc. wearing surface-bridges	210	Sq.yds

TYPE-C

Excavation.	10966	cu.yds
Borrow.	64.	cu.yds.
Shoulders and slopes.	17685	lin ft
Loose stone. road approaches.	55	tons
3½" Brick pavement	27616	sq.yds.
4" W. B. Mac. base course	27616	sq.yds.
4" W.B. Mac. base course	27616	sq.yds.
12"x12½ concrete curb	35370	lin.ft.
8" V.S.P.	600	lin.ft
10" V.S.P.	660	lin.ft.
12" V.S.P.	300	lin.ft.
4" Conc. wearing surface-bridges	210	sq yds.

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