U. S. PUBLIC WORKS
PROJECT NO.

STATE OF OHIO N.R.H-573-C

DEPARTMENT OF HIGHWAYS

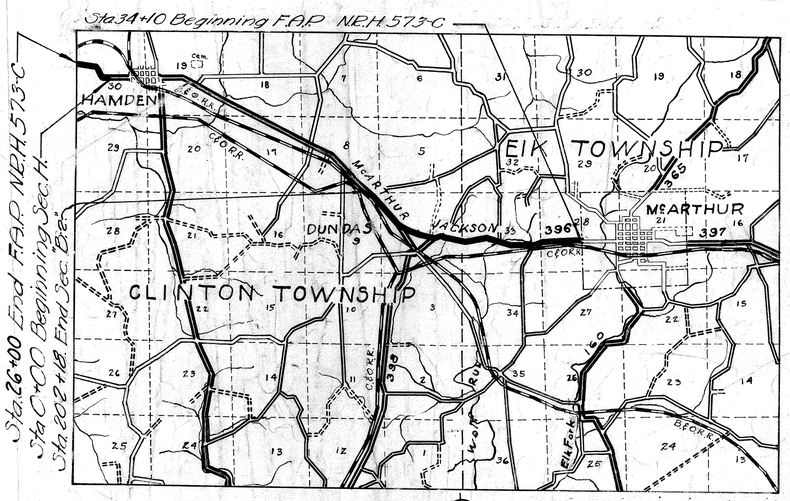
McARTHUR-JACKSON ROAD

S.H.(I.C.H.) 396 SEC. "B1", "B2", & "H"

VINTON COUNTY

ELK & CLINTON TOWNSHIPS

Net length of Project 19,411.77 Lin. Ft.



LOCATION PLAN
SCALE OF MILES 0 1 2

PORTION TO BE IMPROVED
DETOURS SHOWN THUS
STATE HIGHWAYS
IMPROVED COUNTY ROADS
UNIMPROVED COUNTY ROADS

SCALES

PLAN	1"=50'
PROFILE VERTICAL	1"=10'
PROFILE HORIZONAL	1"=50'
CROSS SECTIONS	1"=5'

SUPPLEMENTAL PRINTS OF STANDARD DRAWINGS NO. S-27-PCH-1, S.C-A, BCA, BC-B&E, EC-A, B-T-50-60, G-707 F-B-2-P-12 2-2 2-3,

CONVENTIONAL SIGNS

STATE LINE	
COUNTY LINE	
TOWNSHIP LINE	
SECTION LINE	
CENTER LINE	
PROPERTY LINE	
CITY OR VILLAGE LINE	
FENCE LINE	
POLE LINE	
STEAM RAILROAD	
ELECTRIC RAILROAD	
GUARD RAIL	
DRAIN PIPE NEW	
DRAIN PIPE OLD	
TELEPHONE POLES	T T T T T T

INDEX OF SHEETS

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Fed. Aid District	STATE	Fed. Aid Project	Fiscal Year
10	OHIO	N.R.H.573C	1934

S.H.(I.C.H.) 396 SEC. "B1", "B2", & "H"

VINTON COUNTY

The Standard Specifications of THE STATE of Ohio, Dep of Highways, together with the Supplemental Specifications to Recovery Highway Funds Projects" - - in For Date of Contract will govern this Improv

I hereby approve these Plans and declar the making of this Improvement will not r the closing to Traffic of the Highway and th Right of Way has been provided.

APPROVED Earl C. Ford
DATE Sept 26 1933 RESIDENT DISTR DEPUTY DIREC

APPROVED R.W. Stanford
DATE 10-2-33 RESIDENT DIVISI DEPUTY DIREC

APPROVED Elmer Hilty
DATE 12-5-33 CHIEF ENGINEER BUREAU of CONST

APPROVED
DATE CHIEF ENGINEER BUREAU of MAINT

APPROVED
DATE CHIEF ENGINEER BUREAU of BRIDG

APPROVED H.O. Chapman
DATE 12-7-33 FIRST ASST. DIR & CHIEF ENGINE

APPROVED Otis Wenell
DATE 12-7-33 DIRECTOR of HIGH

RECOMMENDED FOR APPROVAL
DATE DISTRICT ENGINEE BUREAU of PUBLIC

RECOMMENDED FOR APPROVAL
DATE CHIEF ENGINEER BUREAU of PUBLIC

APPROVED
DATE CHIEF of BUREAU

CONSTRUCTION BUREAU OCT 10 1956 GROUND PHOTOLAB

CLERK OF SALES RECEIVED OCT 25 1933 OHIO DEPARTMENT OF HIGHWAYS

CLERK OF SALES RECEIVED DEC 11 1933 OHIO DEPARTMENT OF HIGHWAYS

CHECKING RECORD		
OFFICE		
RESIDENT		
DIVISION		
CENTRAL CONS'T.	[illegible]	10/23/33
CENTRAL-BRIDGES		
BUR. OF PUBLIC ROADS		

APPROVE
C. L. Morgan
Planning Engineer
Remarks 5 F.H.W.A. 1-45
F-32-Vinton T.Nov. 20
F-32-Vinton 4-17-34

(81)
157 - Vinton 396 - "B-1", "B-2", & "H"
1933

Fed Aid District	STATE	Fed Aid Project	F Y
10	OHIO	NRHS 730	19

S.H. (I.C.H.) 396. Sec. B

U. S. PUBLIC WORKS PROJECT NO.

VINTON COUNT

NOTE:-

Regarding the clause in the specifications for the above project which reads as follows:

"The work covered by this contract shall be conducted in such a manner that maximum employment of labor is afforded so far as is practicable during the life of the contract"

The contractor shall commence construction operations immediately upon execution of the contract and will prosecute during the winter months, the work pertaining to side drainage and structures and to perform such work of grading, paving, and finishing of berms as may be permitted or requested by the Director.

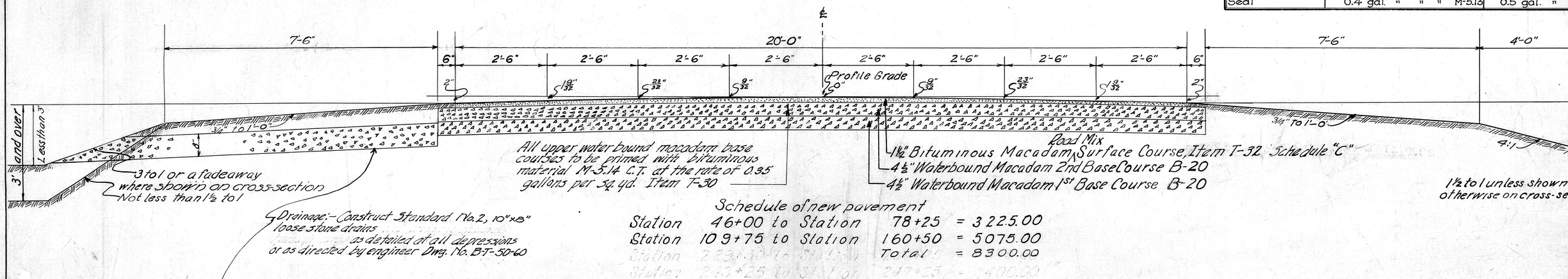
TYPICAL SECTION

FOR BITUMINOUS MACADAM (ROAD MIX) ON WATERBOUND BASE

ITEMS B-20, T-32 & T-30

TABLE OF QUANTITIES REQUIRED PER S
FOR 3" BITUMINOUS MACADAM BASE COURSE -

	Min. Weight per Sq. Yd. per inch of depth of to	
	STONE M-3.5 or M-3.1 = .045 T.	SLAG M-3
	3" x .045 = .135 tons = 270 pounds	3" x .04 = .12 tons
Coarse Aggr.	240.0 lbs. per sq. yd. No. 2	210.0 lbs. per
1st. Penetration	1.0 gal. " " " M-5.11	1.0 gal. "
1st. Filler Aggr.	15.0 lbs. " " " No. 4	15.0 lbs. "
2nd. Penetration	0.4 gal. " " " M-5.11	0.5 gal. "
2nd. Filler Aggr.	15.0 lbs. " " " No. 4	15.0 lbs. "
Seal	0.4 gal. " " " M-5.13	0.5 gal. "



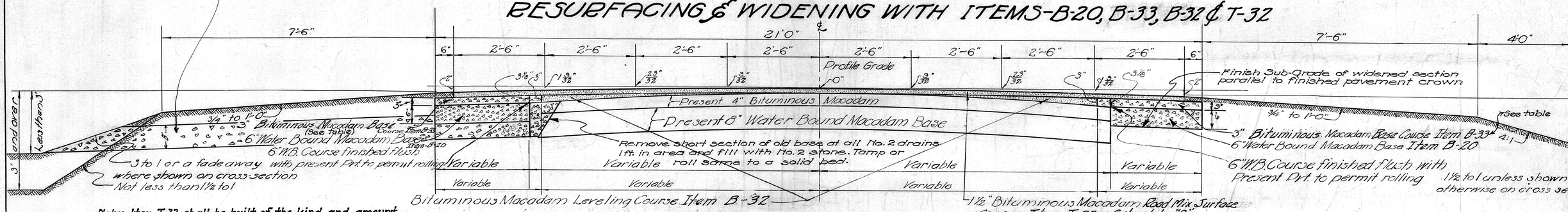
Drainage:- Construct Standard No. 2, 10"x8" loose stone drains as detailed at all depressions or as directed by engineer Dwg. No. BT-50-60

Schedule of new pavement

Station	46+00	to Station	78+25	= 3225.00
Station	109+75	to Station	160+50	= 5075.00
			Total	= 8300.00

Note:- Edges of all base to be salvaged, to be cut and trimmed in accordance with item E-10

RESURFACING & WIDENING WITH ITEMS-B-20, B-33, B-32 & T-32



Schedule of Pavement to be resurfaced & Widened

Station	34+10	to Station	46+00	= 1190.00'
Station	78+25	to Station	109+75	= 3150.00'
Station	160+50	to Station	202+18	= 4168.00
Station	0+00	to Station	26+00	= 2603.77
(Long Sta. 12+50 to 13+00 = 53.77')			Total	= 11,111.77

Note:- Item T-32 shall be built of the kind and amount of materials as shown in Table No. 1 below or Table No. 2 opposite.

—TABLE No. 1—

ITEM T-32 COMPOSITION OF SURFACE COURSE

Schedule	Approximate compacted depth of finished Seal Coats	ROAD MIX					SEAL COATS									
		Aggregate			Bituminous Material		Intermediate Seal					Final Seal				
		Amt. Lbs. per Sq. Yd.	Quality	Size	Kind	No. Gal. per Sq. Yd.	Bituminous Material		Cover Material			Bituminous Material		Cover Material		
						Stone	Slag M-3.5	Gal. per Sq. Yd.	Kind	Quality	Lbs. per Sq. Yd.	Size	Gal. per Sq. Yd.	Kind	Quality	Lbs. per Sq. Yd.	Size
C	1½"	135	M-3.1 or M-3.5	4	M-5.13 M.T.	.70	.70	0.25	M-5.12 H.T.	M-3.1 or M-3.5	14	No. 6	0.25	M-5.13 M.T.	M-3.1 or M-3.5	16	No. 6

Quantities are computed upon the basis of using aggregate Sec. M-3.1 or M-3.5 and bituminous material Sec. M-5.13 M.T.

—TABLE No. 2—

ITEM T-32 COMPOSITION OF SURFACE COURS

Schedule	Approximate compacted depth of finished Seal Coats	ROAD MIX					SEAL COATS									
		Aggregate			Bituminous Material		Intermediate Seal					Final S				
		Amt. Lbs. per Sq. Yd.	Quality	Size	Kind	No. gal. per Sq. Yd.	Bituminous Material		Cover Material			Bituminous Material				
							Slag M-3.6	Gal. per Sq. Yd.	Kind	Quality	Lbs. per Sq. Yd.	Size	Gal. per Sq. Yd.	Kind	Qua	
C	1½"	110	M-3.6	No. 4	M-5.13 M.T.		.94	.25	M-5.12 H.T.	M-3.6	11	No. 6	.25	M-5.13 M.T.	M-	

Approximate estimated quantities are computed upon the basis of using Slag Sec. M-3.6 and bituminous materia

APPROV

10-23-33 FHWA 9-21-37

Fed Rd District	STATE	Federal Project
10	OHIO	NFH 5736

U. S. PUBLIC WORKS PROJECT NO.

VINTON COUN
S.H. 396 Sec. B, E

NOTES

Pavement on all curves will be superelevated and on all curves where the degree of curvature is five degrees or more will be widened. See tables on sheets No. 29, 30 & 31.

BLASTING

In blasting operations for excavating material, and other purposes within the limits of this project, contractor shall be responsible for all damage to persons or property resulting from such blasting operations. Before shots are put off he shall put out guards on each side of such operations to halt vehicles or pedestrians; and he shall use adequate care in the vicinity of buildings to protect same from any damage.

In his quarrying operations contractor shall be responsible for all damage to persons or property and great care shall be exercised to protect the person and well being of his employees.

The blasting shall be carried on at all times by the Contractor in accordance to the General Specifications of the State of Ohio.

NOTES TO CONTRACTOR.

Detour bridges will be built sixteen (16) feet wide of fifteen (15) ton capacity with wooden side railings of adequate strength. Where necessary in the opinion of the ENGINEER they will be built above structures under construction. They will have plank or other suitable approaches.

The plans and provisions of this project are so drawn that work shall be carried on steadily through the winter months and it is a requirement and item of this contract that work will be carried on regularly and steadily from the awarding of the contract to its completion, with stipulation

NOTES TO CONTRACTOR CONTINUED

that, provided any of these operations do not conflict with any specific provisions of the general specifications which are a part of this contract.

TRAFFIC NOTES

Contractor will so plan and conduct his operations that traffic will be carried through this project at all times excepting a few days during the construction of the final T-32 surface course when three (3) temporary detours for periods of three (3) days, and seven (7) days, around different portions of the project, and as more specifically here inafter set forth, may be used.

In general it is the plan to construct the macadam base widening on one side over a portion of this project, carrying traffic over the rest of the pavement width, and similarly on the other side carrying traffic over the pavement width on the new constructed macadam base over a portion of the project, and so continuing over successive portions of the project. In like manner the penetration evening up course over the macadam base widening will be constructed on one side, carrying traffic on the opposite side of the pavement, and then the opposite side constructed carrying traffic over and on the newly constructed penetration course, overlapping on the old pavement. This plan will be followed over successive practical lengths or distances of the project. In like manner the construction of the T-32 leveling course, half the pavement width will be constructed for a practical distance and traffic routed over the other half after which the constructed portion will be used for a one-way traffic lane and the T-32 evening up course on the opposite half be constructed. This plan will be continued

TRAFFIC NOTES CONTINUE

over successive practical lengths traffic handled in this manner ing these operations.

There are certain portions of this ect, either on new location or p where grade is raised on acco of flood water requirements where new location is joining pre pavement to be used, or in a few where vertical curves are reduced, an entirely new pavement is const At these places, since it is not adv to close the whole project on acco of a lack of detours, and since th are not sufficiently important, which places are set forth hered in detail, where the contractor m first construct a traffic bound either two lane or one lane, as sp Such stretches of traffic bound will be tested and used, and have approval of the ENGINEER, before ations that will obstruct or shut traffic are begun over the pres pavement. Contractor will cons a two lane traffic bound road a roadway width of twenty-two feet on the east berm and berme ed from station 46+00 to station likewise and also on the west fro 109+75 to opposite station 118+50 on the east from station 155+0 station 160+00; Where the embank on one side or the other, or on both of the traffic lane is three (3) feet or higher the contractor shall co along same a heavy wooden gu rail of adequate strength approve Engineer. Continued on next sheet.

Fed Rd District	STATE	Fed Aid Project
10	OHIO	WRH-572(3

U. S. PUBLIC WORKS PROJECT NO.

VINTON COU
S.H 396 Sec. B,

NOTES

TRAFFIC NOTES CONTINUED

In the construction of these traffic bound lanes embankments shall be placed in even layers and rolled as required by the provisions of the general specifications for roadway embankment. Where sufficient material for embamtment is not secured in making excavation for these temporary roads the contractor shall furnish same. The grade elevation of these temporary traffic bound roads shall be the same as that of the present pavement so far as practicable, but where the grade of present pavement is raised or lowered the grade elevation of these temporary roads shall in general follow these new grades and shall be as directed by the ENGINEER. Traffic bound surfacing or metal for these temporary roads shall be in accordance with the Specifications for T-10 This will be supplied at unit prices and will first be put on four (4) inches thick and eighteen (18) feet wide on the two lane temporary roads and nine (9) feet wide on the one lane temporary roads and further material as added as directed by the ENGINEER, from time to time. The contractor will maintain these temporary roads in good condition by daily dragging and the addition of further materials as directed by the ENGINEER. During the dust season calcium chloride will be applied at unit bid price as directed by the ENGINEER. Contractor will plan his operations so as to make the public use these temporary roads for a minimum of time and all such construction operations and plans of the contractor shall be approved by the ENGINEER. Wherever a one-way traffic lane is in use the contractor shall provide guards or signalmen at each end of every such one-way traffic lane, and at least two of whom shall be on duty at all hours of the day and night at every one-way traffic lane during the periods that said lane is in use. In the construction of

TRAFFIC NOTES CONTINUED

these two lane temporary roads and one-way temporary roads shallow drainage ditches on the outside of same will be built where necessary and these roads to drain in one direction & away from the pavement. After a new pavement is constructed where these temporary traffic roads have been in use along side the required portions of same will be removed to, i.e., that is so much of same as necessary to complete the typical cross section for such stations. Payment for the construction of these roads aside from the surfacing material at unit prices, is in lump sum, and this shall be understood and agreed to include removal of so much of same as may be required to complete the required typical cross sections and ditches at these stations. Wherever necessary to construct one-way lanes not specifically set forth herein by station to station, same shall be constructed in manner described above and payment for excavation will be at unit bid price for excavation, and payment for borrow used in embankment, if required, will be at unit bid price for borrow; and according to these stipulations the ENGINEER may direct the construction of any other two-way lane or one-way lane that may be necessary.

In the construction of the T-32 top surface course the road may be closed to traffic to allow for this as follows, and detours will be provided and marked and maintained by the STATE, as follows: from station 31+60 at Jackson-Vinton County line to station 0+00 at the south corporation line of Hamden for a period of three (3) days; from station 202+18 2 3/4 miles north of the corporation of Hamden to station 160+00 near Dundas for a period of seven (7) days; and from station 118+50 to station 34+10 near the south corporation line of McArthur for a period of seven (7) days.

Culverts (C)					For Details See Sheet No.
Item No.	Station	Size	Lin. Ft.	Type	
1-C	37+65	24"	60'	Rdwy Culv.	53
2-C	43+85.5	24"	78'	Rdwy Culv.	53

Private Drive Approaches (A)				
Item No.	Station	Side	Place Conc. M.P. Lin Ft.	Place Aggregate cu. yds.
O-A	38+50	Rt.		5
Total				5

Thickness of Present Pavement		
Station	Left Side	Right Side
35+0	10"	10½"
40+0	10¼"	10"
45+0	9¾"	9¾"

FEDERAL ROAD DISTRICT NO.	STATE	FEDERAL AID PROJECT NO.
10	OHIO	N.R.H.573-C

I.C.H. No. 396 Sec
VINTON COUNTY

U. S. PUBLIC WORKS
PROJECT NO.

North

To Logon

C. & O. R.R.

Railroad R.O.W. Line

Station 34+10 beginning F.A.P. No. N.R.H. 573-C

Station 34+10 beginning Sec. B-1

McArthur Corporation Line

S. 4° 38' W.

1C

2C

O-A

R

R

30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

Sta. 42+50 Construct Std. No. 2 drain and drainage channel Std. Dwg No. B.T.-50-60

7'-0" 8'-0" 8'-0" 7'-0"

4" Macadam Pavt.
8" W.B. Macadam base.

TYPICAL SECTION of ADJOINING PAV'T.

B.M. Sta. 34+18
X on S.E. Corner Conc. Step
40' to Rt.
Elev. 729.69

All elevations referred to U.S.G.S. datum.

729.04 727.91 727.78 727.65 727.52 727.39 727.26 727.13 726.92 726.57 726.14 725.71 725.28 724.90 724.63 724.41 724.19 723.97 723.75 723.53 723.27 722.94 722.57 722.20 721.83 721.46 721.09 720.77 720.57 720.42 720.27 720.12 719.97 719.82 719.73 719.77 719.97 719.97 720.07 720.17 720.22 720.17 720.07 719.97

P.I. 727.00 P.I. 724.85 P.I. 723.31 P.I. 720.72 P.I. 719.67 P.I. 720.27

730
720
710

-0.52% -1.72% -0.88% -1.48% -0.60% +0.40% -0.4

Grade line shown is crown of finished pavement

Station 34+10 beginning of F.A.P. No. N.R.H. 573-C Sta. 34+10 beginning of widening & resurfacing

50' V.C. 50' V.C. 50' V.C. 50' V.C. 50' V.C. 50' V.C.

720.02 723.22 725.30 727.14 727.04 727.81+0 727.71 727.60 727.40 727.29 727.24 727.01 726.87 726.76 726.28 726.02 725.42 724.99 724.69 724.57 724.23 723.98 723.69 723.62 723.36 723.11 722.76 722.30 722.03 721.67 721.25 720.91 720.51 720.40 720.20 719.99 719.97 719.78 719.64 719.64 719.56 719.73 719.87 719.86 719.90 720.11 719.89 719.93 719.71

29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44

Fed. Aid District	STATE	Fed. Aid Project	Fi
10	OHIO	N.R.H.573-C	Y

S.H. (I.C.H.) 396 SEC. "B"

VINTON COUNTY

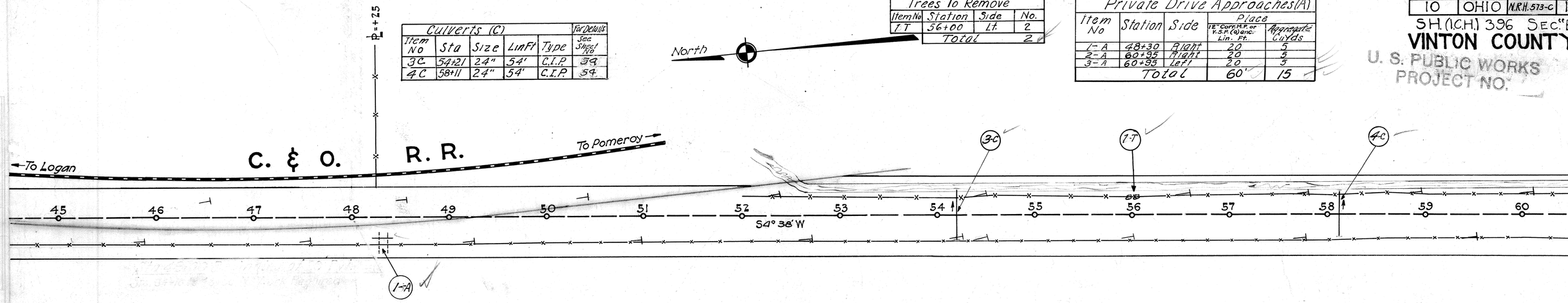
U. S. PUBLIC WORKS
PROJECT NO.

Conf. M.P. of '51 (1962) sht. 12

Culverts (C)						For Details
Item No	Sta	Size	Lin Ft	Type		See Sheet No
3C	54+21	24"	54'	C.I.P.		59
4C	58+11	24"	54'	C.I.P.		59

Trees To Remove			
Item No	Station	Side	No.
1-T	56+00	Lt.	2
Total			2

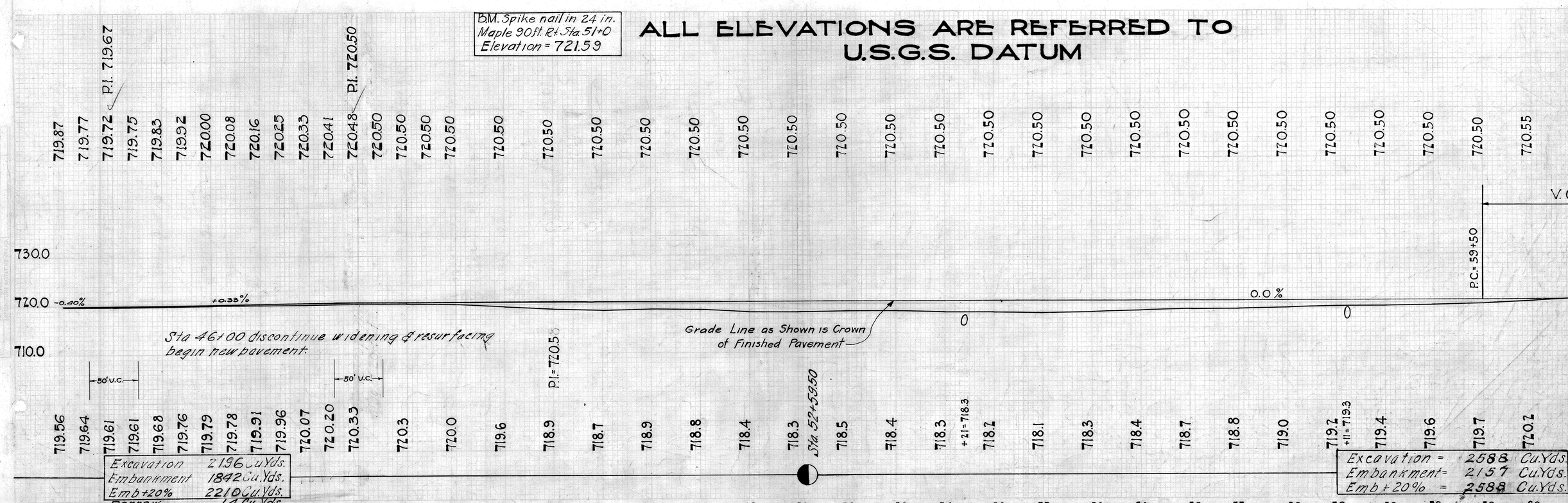
Private Drive Approaches (A)				
Item No	Station	Side	Place 18" Conc. H.P. or V.S.P. (C) or (C) Lin. Ft.	Aggregate C.Yds.
1-A	48+30	Right	20	5
2-A	60+95	Right	20	5
3-A	60+95	Left	20	5
Total			60'	15



Sta. 57+00 Construct Std. No. 2 loose stone drain and drainage channel Std. Dwg. No. B-T-30-60

B.M. Spike nail in 24 in. Maple 90 ft. Rt. Sta. 51+0 Elevation = 721.59

ALL ELEVATIONS ARE REFERRED TO U.S.G.S. DATUM


719.87
719.77
719.72
P.I. 719.67
719.75
719.83
719.92
720.00
720.08
720.16
720.25
720.33
720.41
720.48
P.I. 720.50
720.50
720.50

Fed. Aid District	STATE	Fed. Aid Project
10	OHIO	N.R.H. 573-C

S.H.(I.C.H.) 396 SEC. "B"

VINTON COUNTY

U. S. PUBLIC WORKS PROJECT NO.

P.I=STA. 63+30.00
Δ = 8° 50' LT.
D = 2° 00'
T = 221.28'
L = 441.67'
E = 8.53'

Culvert (C)					For Details See Sheet No.
Item No.	Sta.	Size	Lin.Ft.	Type	
5-C	61+80	24"	56'	C.I.P.	54
6-C	64+39	15"	56'	Paved Gutter	54
7-C	71+88	9'x8'	80'	Slab Top	55

Private Drive Approaches (A)				
Item No	Station	Side	Place 12" Corr. M.P. or 15"-18" Conc. Lin.Ft.	Aggregate C.U.Yds.
4-A	61+90	Lt	40	10
5-A	63+15	Lt		6
6-A	63+50	Lt		5
7-A	69+75	Rt	20	5
Total			60	26

Trees To Remove			
Item No.	Station	Side	No.
2T	63+40	Rt.	1
3T	65+50	Rt.	6
4T	67+25	Lt.	1
Total			8

North

P.C.=Sta.61+08.72
P.T.=Sta.65+50.39
P.C.=Sta.67+62.76
℄ of Old Road 7
County Road
Store & Flng. Sta.
Dw.
S 4° 38' W
S 54° 12' E

Δ = 10° 22' RT.
D = 1° 00'
T = 519.80'
L = 1037.24'
R = 5729.58'

B.M. X Cut N.W. Corner Conc. Floor 30 ft. Lt. Sta 63+15
Elevation = 723.70

ALL ELEVATIONS ARE REFERRED TO U.S.G.S. DATUM

V.C. = 600'
P.I. = 720.50
P.T. = 65+50
0.0% Tang.
+2.607%
Grade Line as Shown is Crown of Finished Pavement
V.C. = 30

Excavation = 13686 Cu Yds.
Embankment = 11405 Cu Yds.
Emb + 20% = 13686 Cu Yds.

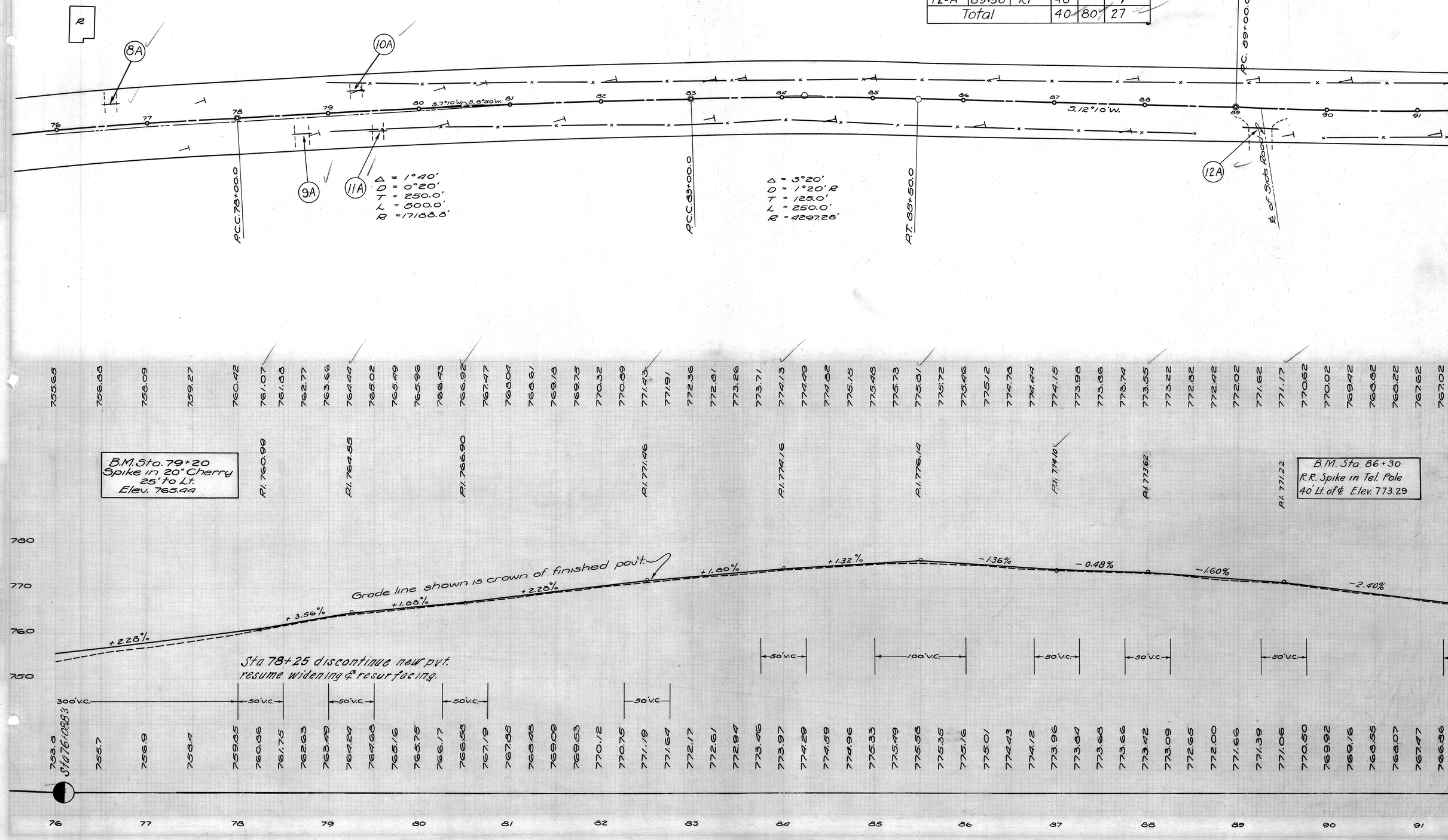
U. S. PUBLIC WORKS
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FEDERAL ROAD DISTRICT NO.	STATE	FEDERAL AID PROJECT NO.
10	OHIO	N.R.H.57-C

I.C.H. No. 396 Sec
VINTON COUNTY

Thickness of Present Pavement		
Station	Left Side	Right Side
80+0	9¼"	9¾"
85+0	10"	10"
90+0	9¾"	10¼"

Private Drive Approaches (A)					
Item No.	Station	Side	Place		
			Conc. P.S. or 7"S.P.W.Conc. 15' Lin.Ft.	12"	Aggregate cu.yds.
8-A	76+50	Lt		20	5
9-A	78+70	Rt		20	5
10-A	79+30	Lt		20	5
11-A	79+52	Rt		20	5
12-A	89+30	Rt	40		7
Total			40	80	27



U. S. PUBLIC WORKS
PROJECT NO.

FEDERAL ROAD DISTRICT NO.	STATE	FEDERAL AID PROJECT NO.	F
10	OHIO	N.R.H.573-C	

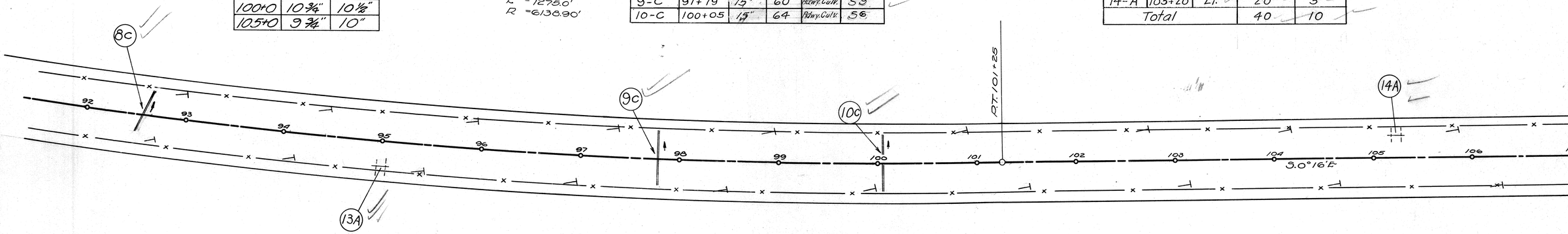
I.C.H. No. 396 Sec. 2
VINTON COUNTY.

Thickness of Present Pavement		
Station	Left Side	Right Side
95+0	10¼"	11"
100+0	10¾"	10½"
105+0	9¾"	10"

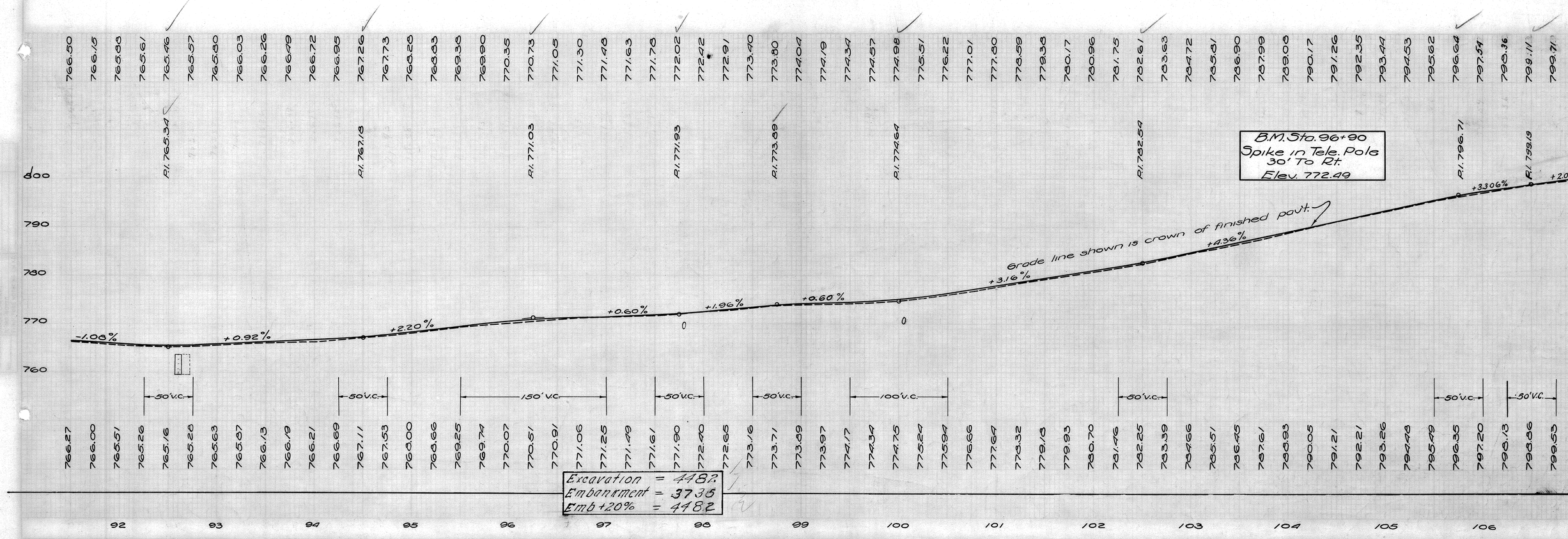
Δ = 11°54'
D = 0°56' Lt
T = 638.9'
L = 1275.0'
R = 6138.90'

Culverts (C)					For Details See Sheet No.
Item No.	Station	Size	Lin. Ft.	Type	
8-C	92+60	6'×4'	57	Conc. Box	56
9-C	97+79	15"	60	Pdtwy. Culv.	59
10-C	100+05	15"	64	Pdtwy. Culv.	56

Private Drive Approaches (A)				
Item No	Station	Side	Place 12" Corr. M.P. or V.S.P. Culv. Lin. Ft.	Place Aggregate Cu. Yds.
13-A	95+00	Rt.	20	5
14-A	105+20	Lt.	20	5
Total			40	10



Sta. 92+50 Construct Std. No. 2
100.36 Stone drain and drainage
Channel Std. Dwg. No B-T-50-60



Excavation = 4487.
Embankment = 3735
Emb +20% = 4482

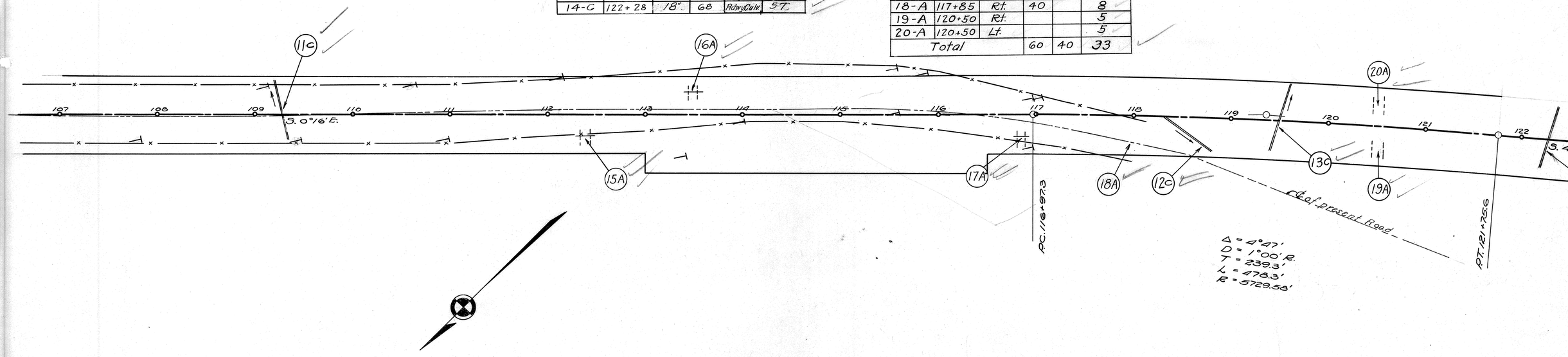
FEDERAL ROAD DISTRICT NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR
10	OHIO	U.R.H.373-C	1937

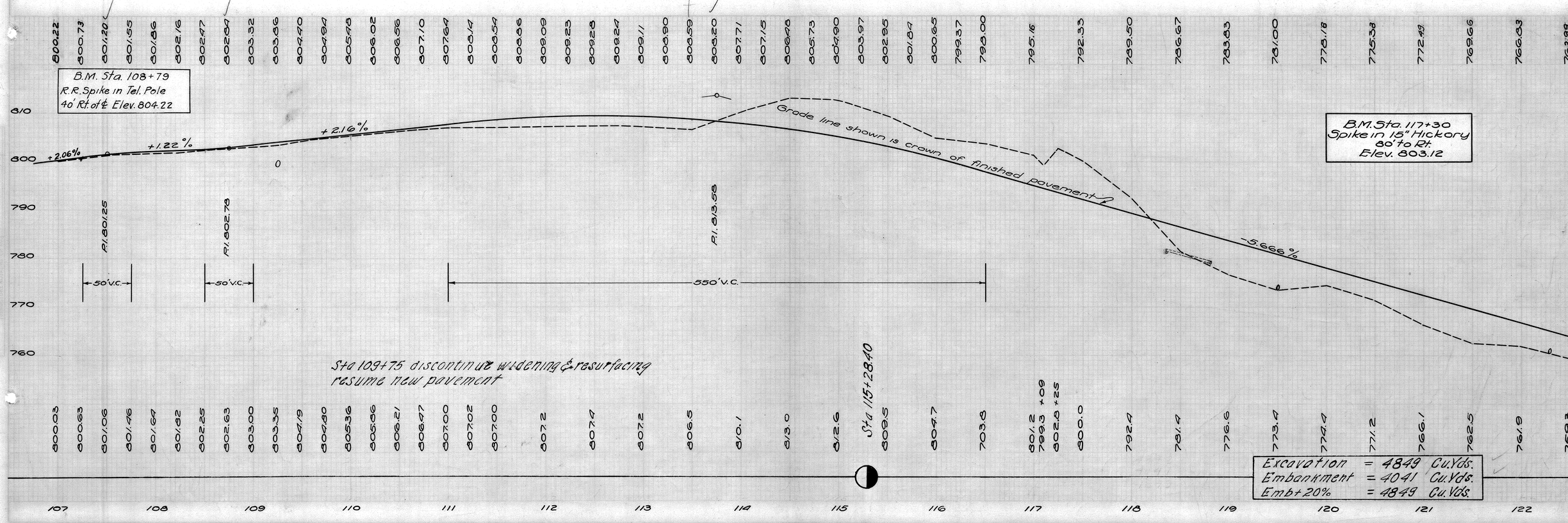
U. S. PUBLIC ROADS
PROJECT NO.

I.C.H. NO. 396 SEC. "B"
VINTON COUNTY.

Culverts (c)					For Details See Sheet No.
Item No.	Station	Size	Lin. Ft.	Type	
11-C	109+27	15"	64	Rdwy Culv.	56
12-C	118+33	6"	60	Rdwy Culv.	57
13-C	119+50	15"	76	Rdwy Culv.	57
14-C	122+28	18"	68	Rdwy Culv.	57

Private Drive Approaches (A)					
Item No	Station	Side	Place Gravel or 15 Lin. Ft. 12" C.S.P.M.P.		Aggregate Cu. Yds.
15-A	112+40	Rt.		20	5
16-A	113+50	Lt.		20	5
17-A	116+85	Rt.	20		5
18-A	117+85	Rt.	40		8
19-A	120+50	Rt.			5
20-A	120+50	Lt.			5
Total			60	40	33





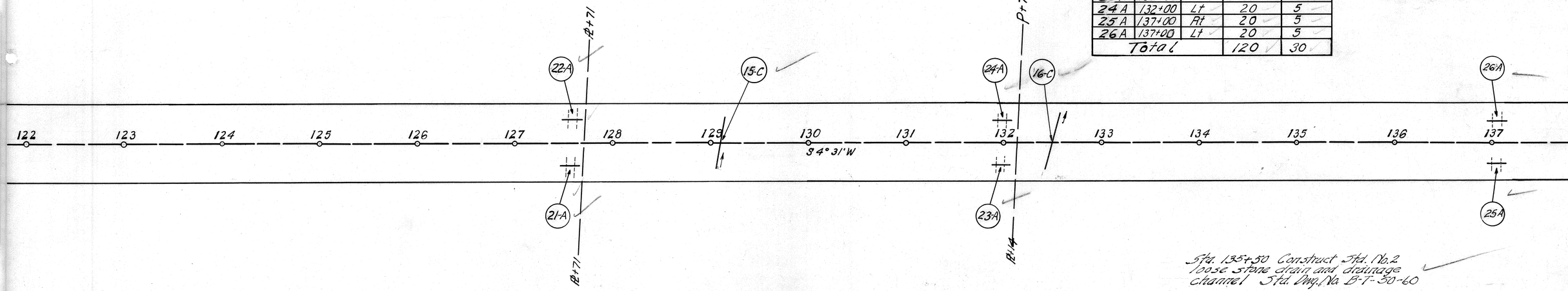
U. S. PUBLIC WORKS
PROJECT NO.

Fed. Aid District	STATE	Fed Aid Project	Fis Y
10	OHIO	N.R.H. 573-C	19

S.H. (I.C.H.) 396 SEC. B-1
VINTON COUNTY

Culvert. (C)					For Details See Sheet No.
Item No	Sta	Size.	Lin Ft.	Type.	
15-C	129+20	15"	52	Rd Culv	57
16-C	132+50	24"	60	C.I.P.	58

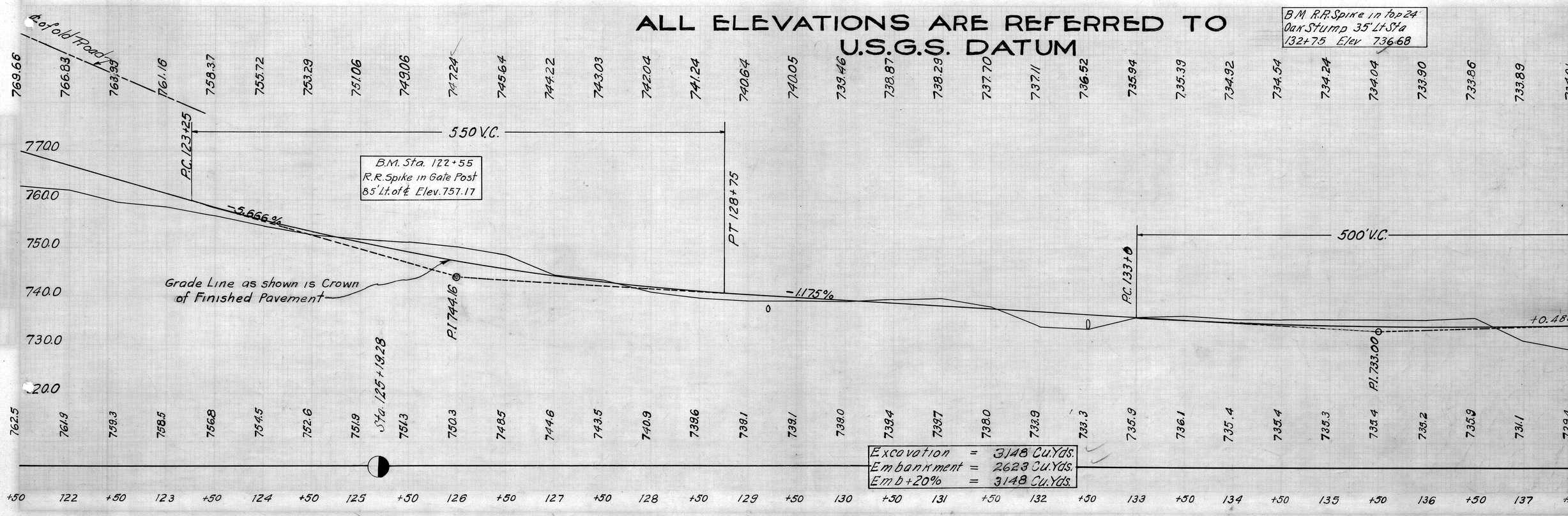
Private Drive Approaches A				
Item No	Station	Side	Place 12" Corr. M.P. or V.S.P. Flare. Lin Ft.	Place Aggregate Cu. Yds.
21 A	127+60	Rt	20	5
22 A	127+60	Lt	20	5
23 A	132+00	Rt	20	5
24 A	132+00	Lt	20	5
25 A	137+00	Rt	20	5
26 A	137+00	Lt	20	5
Total			120	30



Sta. 135+50 Construct Std. No. 2 Loose Stone drain and drainage Channel Std. Dwg. No. B-T-30-60

ALL ELEVATIONS ARE REFERRED TO U.S.G.S. DATUM

B.M. R.R. Spike in Top 24" Oak Stump 35' Lt Sta 132+75 Elev 736.68



Excavation	=	3148 Cu. Yds.
Embankment	=	2623 Cu. Yds.
Emb + 20%	=	3148 Cu. Yds.

Fed Aid District	STATE	Fed Aid Project	Fiscal Year
10	OH10	N.H.M.513-C	1963

S.H. (I.C.H.) 396 Sec. "B"
VINTON COUNTY

U. S. PUBLIC WORKS
PROJECT NO.

Culvert (C)						For Details See Sheet No.
Item No.	Sta.	Size	Lin. Ft.	Type		
17-C	140+10	5'x3'	60'	Box Culv.		58
18-C	145+70	30"	88'	C.I.P.		58
19-C	153+10	15"	62'	Rd. Culv.		59

Trees To Remove			
Item No	Station	Side	No.
5T	138+55	Rt.	2
Total			2

Private Drive Approaches (A)				
Item No	Station	Side	Place 18" Corr. M.P. or V.S.P. Lin. Ft.	Aggregate Cu. Yds.
27-A	144+50	Lt	20	5
28-A	144+75	Rt		5
29-A	144+75	Lt		5
30-A	150+10	Rt	20	5
31-A	152+50	Lt	20	5
32-A	154+00	Rt	20	5
Total			80	30

℄ of old Road

Station 145+0 end Sec. B-1
Beginning Sec. B-2

P.C. 145+74.44

P.I. = STA. 153+01.7
Δ = 59° 28' Rt.
T = 4° 30'
L = 727.27'
E = 1321.48'
R = 193.04

B.M. Sta. 147+00
+ Cut in N.W. Corner Hdw. of Culv. In Front of Christian Store Lt. 100'± Elev. 740.00

B.M. + Cut on N.E. Cor E. hd wall Culv 115 Rt Sta 143+00 Elev 734.50

B.M. Sta. 153+30
+ Cut in N.E. Corner E. Hdw. 48' Lt. of ℄ Elev. 746.59

ALL ELEVATIONS ARE REFERRED TO U.S.G.S. DATUM

7500
7400
7300
7200

+0.4886

+2.225%

400' V.C.

P.I. 740.08

Grade Line as shown is Crown of Finished Pavement

Sta 140+20.40

Sta 148+86.46

Excavation	=	3656 Cu. Yds.
Embankment	=	3047 Cu. Yds.
Emb + 20%	=	3656 Cu. Yds.

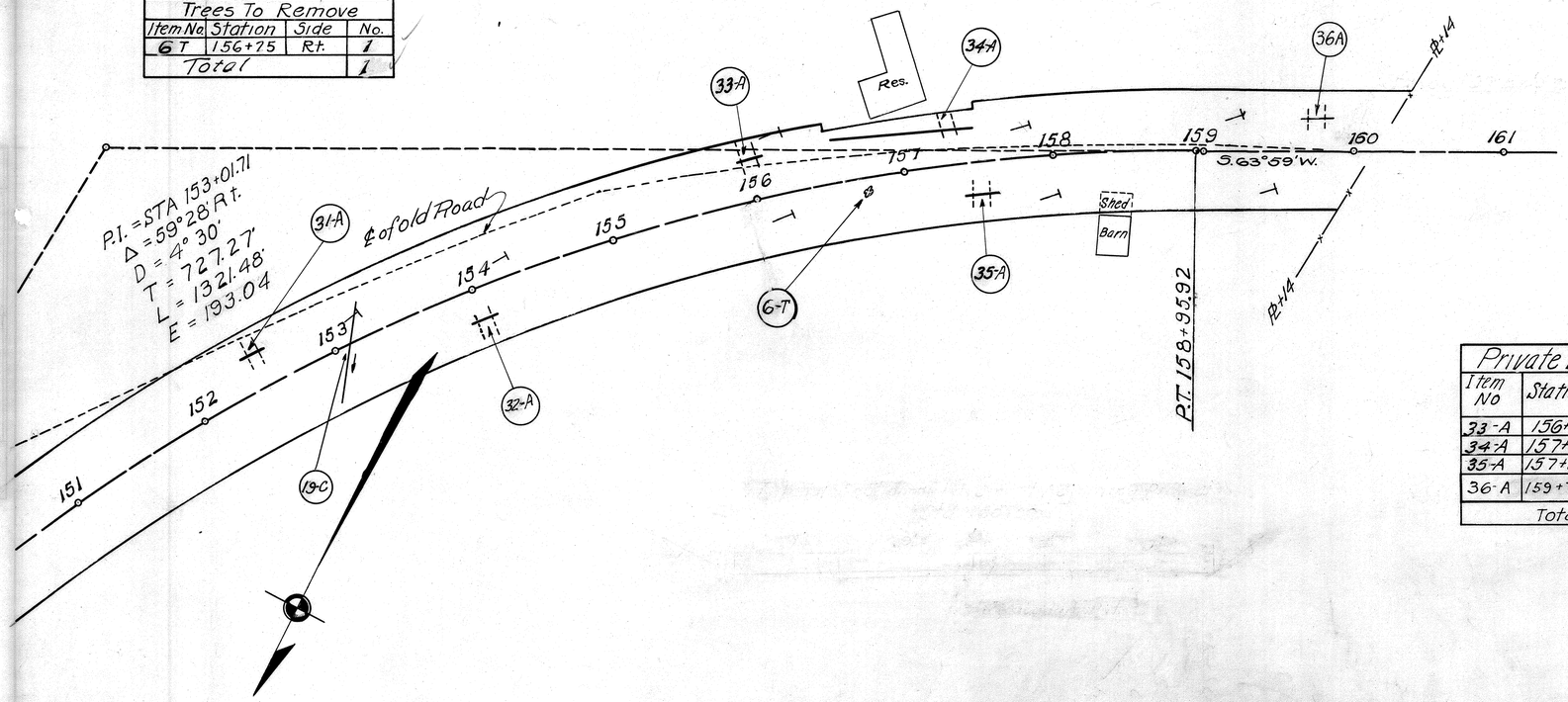
138 +50 139 +50 140 +50 141 +50 142 +50 143 +50 144 +50 145 +50 146 +50 147 +50 148 +50 149 +50 150 +50 151 +50 152 +50 153

Trees To Remove			
Item No	Station	Side	No.
6 T	156+75	Rt.	1
Total			1

Fed Ald District	STATE	Fed Ald Project	Fiscal Year
10	OHIO	N.R.H. 513-C	1934

U. S. PUBLIC WORKS
PROJECT NO.

S.H. (I.C.H.) 396 Sec. "B-2"
VINTON COUNTY



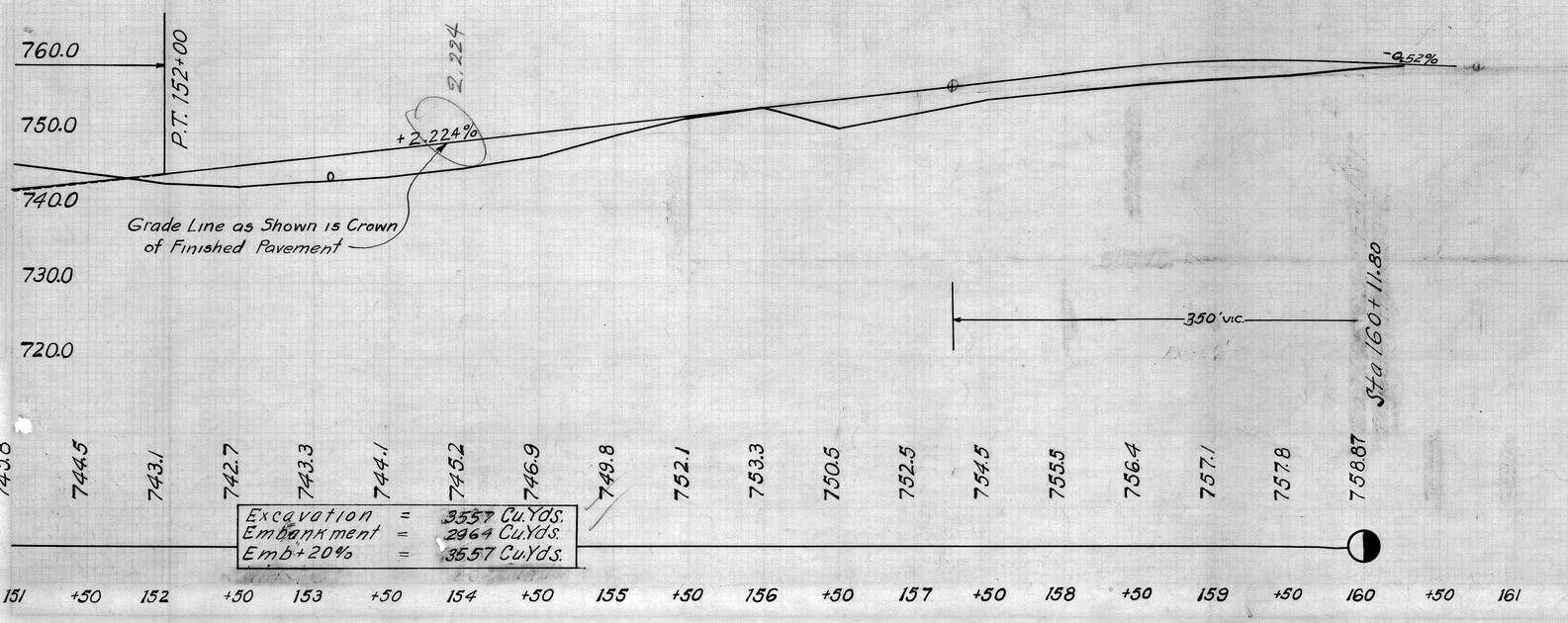
Private Drive Approaches (A)				
Item No	Station	Side	Place 12" Corr. M.P. or R.C.P. (c) or (c) Lin. Ft.	Aggregate Cu. Yds.
33-A	156+00	Lt	20	5
34-A	157+00	Lt	100	5
35-A	157+50	Rt	20	5
36-A	159+75	Lt.	20	5
Total			160	20

ALL ELEVATIONS ARE REFERRED TO U.S.G.S. DATUM

B.M. +on NE Cor E Hdw
Culv 48' Lt Sta 153+30
Elev 746.59

B.M. Sta. 160+15
R.R. Spike in Corner Fence Post
28' Lt. of ℄ Elev. 758.48

742.53 743.47 744.53 745.65 746.76 747.87 748.98 750.09 751.20 752.32 753.43 753.98 754.54 755.10 755.65 756.21 756.74 757.22 757.65 758.04 758.32 758.66 758.80 759.09 759.23 759.32 759.36 159.30 159.19



745.8 744.5 743.1 742.7 743.3 744.1 745.2 746.9 749.8 752.1 753.3 750.5 752.5 754.5 755.5 756.4 757.1 757.8 758.87

Excavation	=	3557 Cu. Yds.
Embankment	=	2964 Cu. Yds.
Emb + 20%	=	3557 Cu. Yds.

151 +50 152 +50 153 +50 154 +50 155 +50 156 +50 157 +50 158 +50 159 +50 160 +50 161

U. S. PUBLIC WORKS
PROJECT NO.

Fed.Aid District	STATE	Fed.Aid Project	Fis Ye
10	OHIO	W.P.H.5736	19

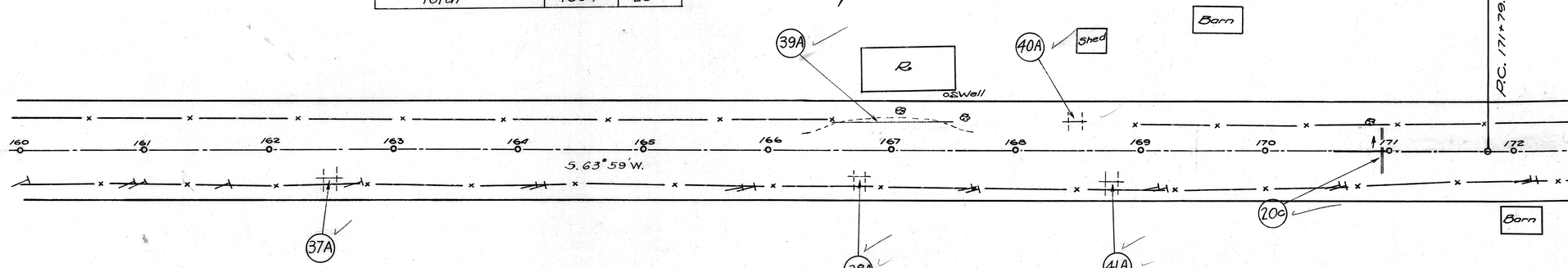
S.H.(I.C.H.) 396 SEC. B-

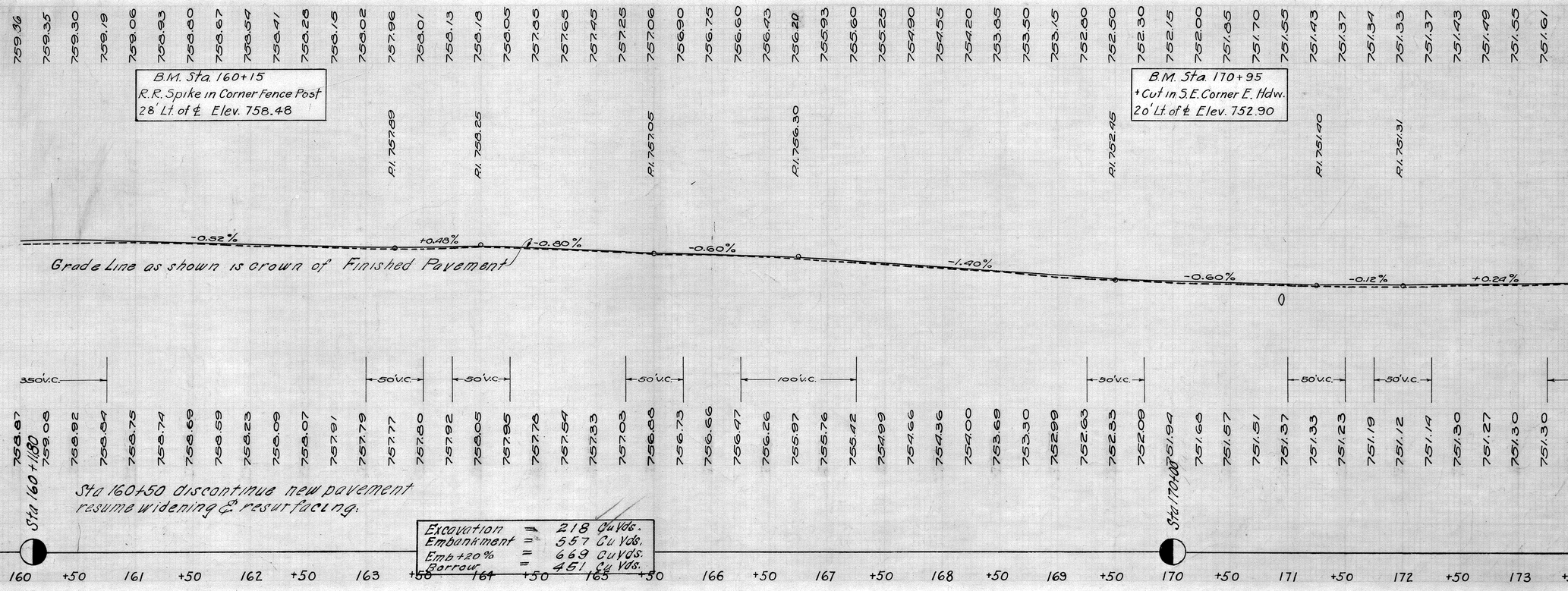
VINTON COUNTY

Culverts (C)					For Details See Sheet No.
Item No.	Station	Size	Lin.Ft.	Type	
20-C	170+95	24"	28'	V.S.P. or R.C.P.	60

Private Drive Approaches (A)				
Item No	Station	Side	Place 12" Corr. M.P. or V.S.P. Equiv. Lin.Ft.	Aggregate Cu.Yds.
37-A	162+50	Rt.	20	5
38-A	166+75	Rt.	20	5
39-A	167+00	Lt.	100	5
40-A	168+50	Lt.	20	5
41-A	168+80	Rt.	20	5
Total			180	25

Thickness of Present Pavement		
Station	Left Side	Right Side
165+0	10¼"	10½"
170+0	10¾"	9¾"





Sta. 171+50 Construct Std. No. 2 loose stone drain and drainage channel Std. Dwg. No. B-T-50-60

U. S. PUBLIC WORKS
PROJECT NO.

Fed. Aid District	STATE	Fed. Aid Project
10	OHIO	W.R.H.-573C

S.H. (I.C.H.) 396 SEC. B

VINTON COUN

Thickness of Present Pavement

Station	Left Side	Right Side
175+10	10½"	10½"
180+10	10"	10½"
185+10	9¾"	9½"

Culverts (C)

Item No	Station	Size	Lin. Ft.	Type	For Details See Sheet No.
21-C	176+45	18"	30	Rd. Culv.	60
22 C	185+55	18"	22	Rd. Culv.	60

Private Drive Approaches (A)

Item No.	Station	Side	Place 12" Corr. M.P. or V.S.P. Flo. enc. Lin. Ft.	Place Aggregate Co. Sts.
42-A	179+60	Rt.	20	5
43-A	186+45	Lt.		5
Total			20	10

Trees to Remove

Item No	Station	Side	No.
7T	174+25	Lt	1
8T	174+49	Lt	1
9T	177+36	Lt	1
10T	179+91	Lt	1
Total			4

Δ = 15°29' Lt.
D = 2°00'
T = 389.5'
L = 774.2'
R = 2864.79'

7T 8T 9T 10T 43A 21C 22C 42A

P.T. 179+53.6

S. 48°30' W.

Sta. 177+00 Construct Std. No. 2 Toose Stone drain and drainage channel Std. Dwg. No. B-T-50-60

Sta. 183+00 Construct Std. No. 2 Toose Stone drain and drainage channel Std. Dwg. No. B-T-50-60

B. M. Sta. 176+00
+Cut in N.W. Corner W. Hdw.
20' Rt. of ℄ Elev. 750.42

B. M. Sta. 185+12
+Cut in S.E. Corner E. Hdw.
20' Lt. of ℄ Elev. 743.94

+0.24% −1.00% −0.68% −0.08% +1.04% −0.44% −1.32% −1.78% −0.633% −1.20% −0.36% −0.96% −0.28% +0.20% +0.92%

100' V.C. 50' V.C.

Sta 180+00

Sta 186+50

Excavation	= 220 Cu. Yds.
Embankment	= 697 Cu. Yds.
Emb+20%	= 836 Cu. Yds.
Borrow	= 616 Cu. Yds.

Excavation	= 172 Cu. Yds.
Embankment	= 402 Cu. Yds.
Emb+20%	= 482 Cu. Yds.
Borrow	= 310 Cu. Yds.

U. S. PUBLIC WORKS
PROJECT NO.

Fed Aid District	STATE	Fed Aid Project	Fi Ye
10	OHIO	W.R.H.573C	19

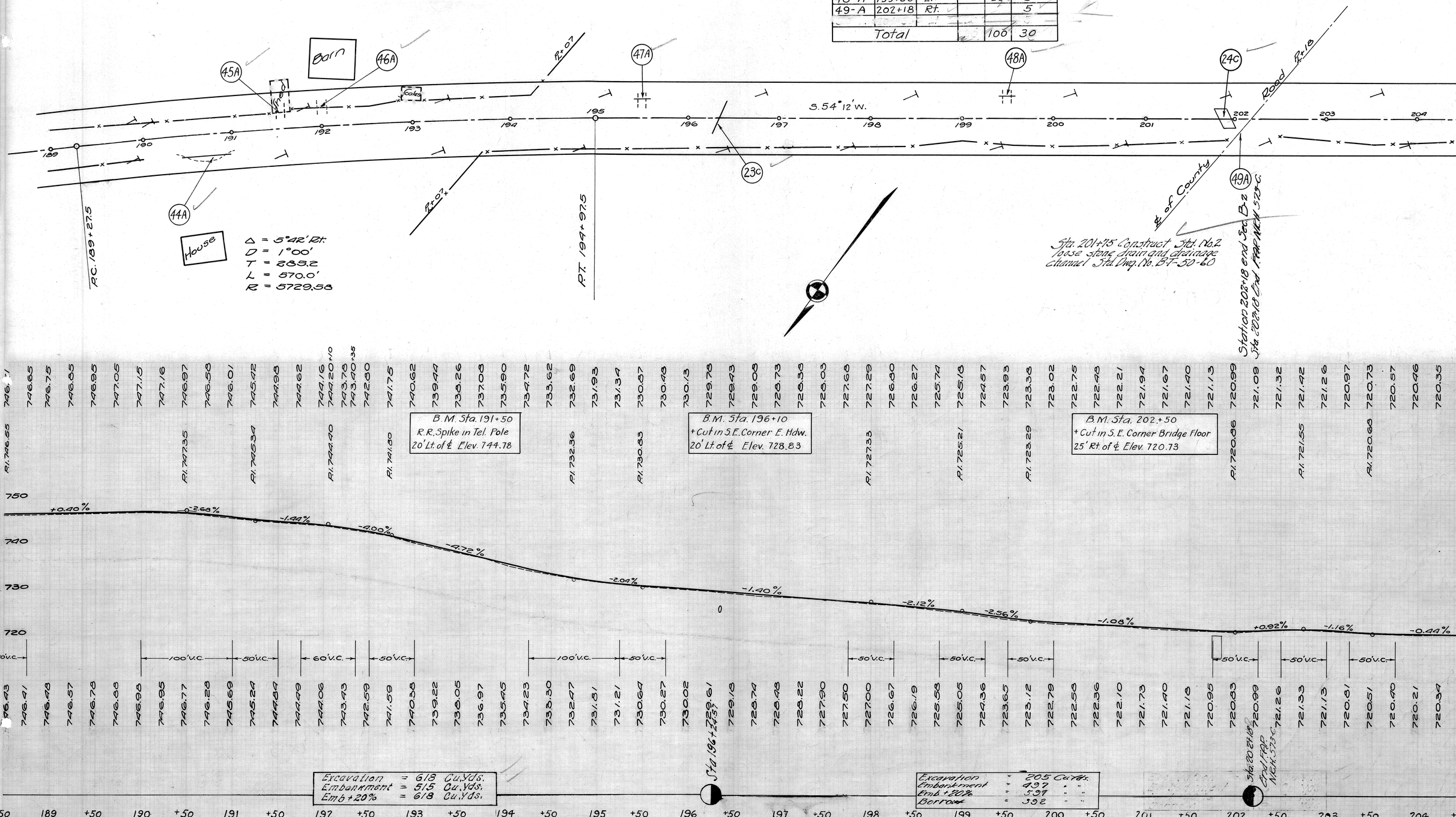
S.H. (I.C.H.) 396 Sec. B4

VINTON COUNTY

Thickness of Present Pavement		
Station	Left Side	Right Side
190+0	11"	10¾"
195+0	10¾"	11"
200+0	10½"	10½"

Culverts (c)					For Details See Sheet No.
Item No.	Station	Size	Lin. ft.	Type	
23-C	196+34	18"	32	Rd. Culv.	60
24-C	201+81	12'-5"	575	Spec. Box	61

Private Drive Approaches (A)					
Item No.	Station	Side	Place 6"-5"-4" B.&S. V.S.P. or 18" Conc. 15" Lin. Ft.	12"	Aggregate Cu. Yds.
44-A	190+70	Rt.		60	5
45-A	191+50	Lt.			5
46-A	192+00	Lt.			5
47-A	195+50	Lt.		20	5
48-A	199+00	Lt.		20	5
49-A	202+18	Rt.			5
Total				100	30



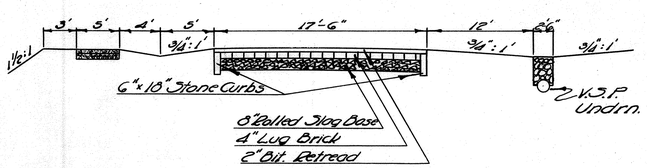
U. S. PUBLIC WORKS
PROJECT NO.

FED. RD. DIST. NO.	STATE	FED. AID PROJECT
10	OHIO	N.F.H. 573-C

VINTON COUN
S.H. 336 SEC.

Thickness of Present Pavement		
Station	Left Side	Right Side
0+00	10"	10½
5+00	10½"	10"

Private Drive Approaches				
Item No.	Station	Side	Place	
			Corr. M.P. Lin.ft.	Aggregate Cu.Yds.
1-A	4+50	Lt.		5



TYPICAL SECTION PAV'T. ADJOINING PROJECT

U. S. PUBLIC WORKS
PROJECT NO.

FED. RD. DIST. NO.	STATE	FED. AID PROJECT
10	OHIO	N.R.H. 323-C

VINTON COU
S.H. 336 SE

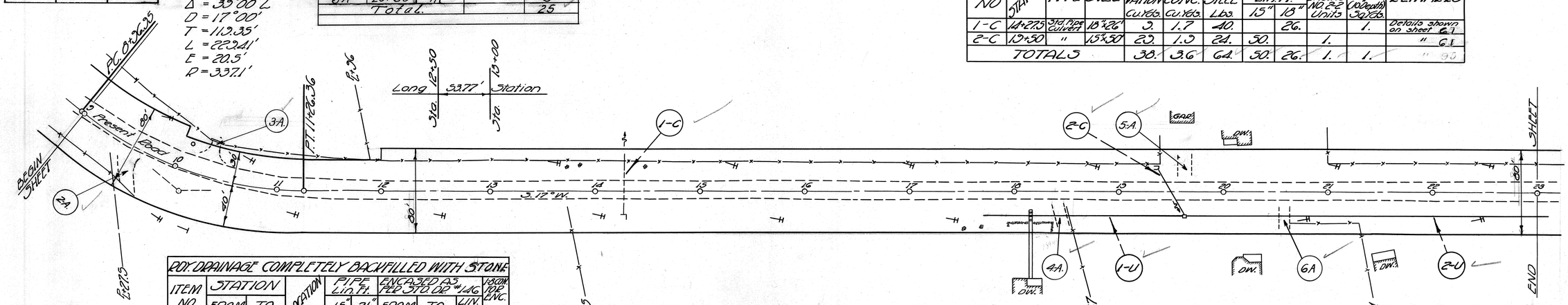
Thickness of Present Pavement

Station	Left Side	Right Side
10+00	9½	10½
15+00	10¼	10¼
20+00	10	9¾

Private Drive Approaches (A)

Item No	Station	Side	Place Concrete 12" or Less Thick	Place Aggregate Cu. Yds.
2-A	9+50	Rt		5
3-A	10+25	Lt		5
4-A	18+40	Rt		5
5-A	19+60	Lt		5
6-A	20+60	Rt		5
Total				25

Δ = 33°00' Lt
D = 17°00'
T = 112.35'
L = 222.41'
E = 20.5'
R = 337.1'

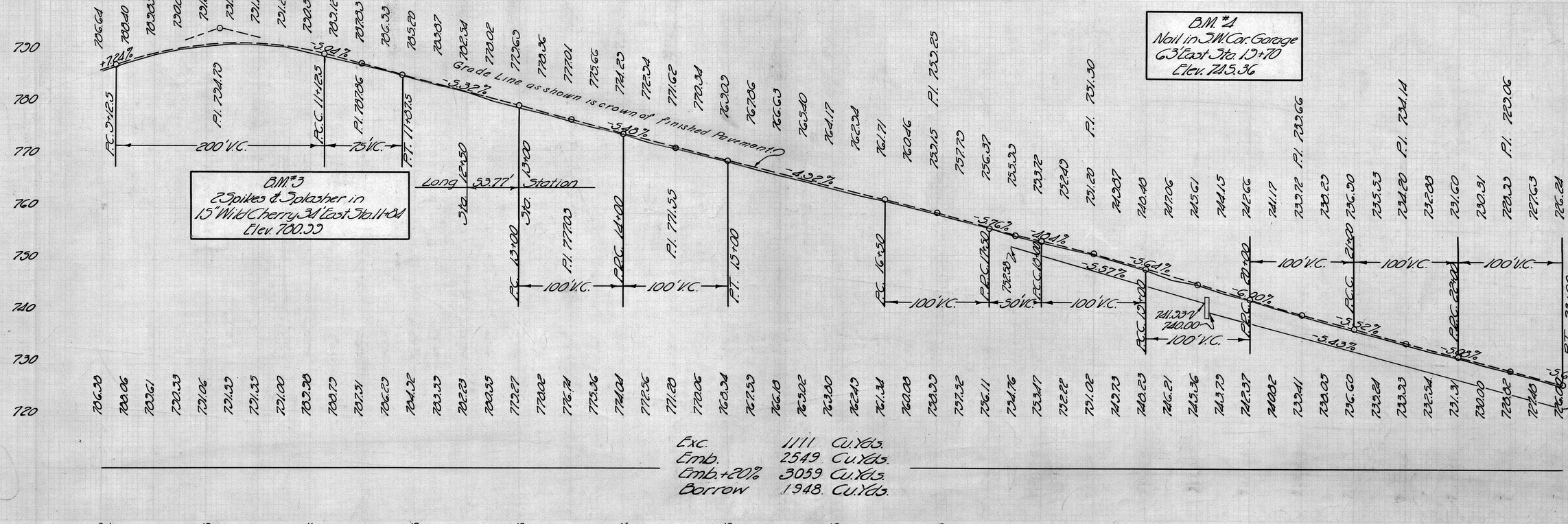


CULVERTS

ITEM NO	STATION	TYPE	SIZE	EXCAVATION Cu.Yds.	1:5½ CONC. Cu.Yds.	REINF. STEEL Lbs.	PIPE Lin. Ft. 15"	PIPE Lin. Ft. 18"	STD. CATCH BASIN NO 252 Units	PIP. RAP (No Depth) Sq.Yds.	REMARKS
1-C	14+27.25	Std. Pipe Culvert	18"x26"	3.	1.7	40.		26.		1.	Details shown on sheet 6.1
2-C	13+50	"	15"x30"	23.	1.3	24.	30.		1.		" 6.1
TOTALS				30.	3.6	64.	30.	26.	1.	1.	" 9.3

PROV. DRAINAGE COMPLETELY BACKFILLED WITH STONE

ITEM NO	STATION FROM	STATION TO	LOCATION	PIPE Lin. Ft. 15"	PIPE Lin. Ft. 21"	ENCASED AS PER STD. DR "1.46 FROM	ENCASED AS PER STD. DR "1.46 TO	LIN. FT.	1.5 CONC. PER ENC. Cu.Yds.
1-U	17+71	13+61	West &	130.		17+71 18+30	17+73 18+50	4. 20.	0.5 2.6
2-U	13+63	23+00	" "		337.	20+40	20+60	20.	3.6
TOTALS				130.	337.				6.7


B.M. #1
Nail in S.W. Cor. Garage
63 East Sta. 13+70
Elev. 721.36
B.M. #3
2 Spikes & Splasher in
15" Wild Cherry 34' East Sta. 11+84
Elev. 700.33
Grade Line as shown is crown of finished Pavement
+7.24%
-3.94%
-5.32%
-5.10%
-4.32%
-5.76%
-4.04%
-5.61%
-5.57%
-6.00%
-5.52%
-5.43%
-5.03%
-5.41%
P.C. 3+25
P.I. 7+24.70
200' V.C.
P.C.C. 11+25
P.I. 12+26
75' V.C.
P.T. 11+51.5
P.C. 13+00
P.I. 17+03
100' V.C.
P.C.C. 14+00
P.I. 17+55
100' V.C.
P.T. 15+00
P.C. 16+50
100' V.C.
P.C.C. 17+50
30' V.C.
P.C.C. 17+80
100' V.C.
P.C.C. 19+00
P.C. 20+00
100' V.C.
P.C.C. 21+00
100' V.C.
P.C. 22+00
100' V.C.
P.T. 23+00
P.I. 7+24.70
P.I. 12+26
P.I. 17+03
P.I. 17+55
P.I. 25+25
P.I. 30+15
P.I. 32+39
P.I. 34+15
P.I. 37+26
P.I. 39+72
P.I. 42+30
P.I. 44+14
P.I. 46+20
P.I. 48+22
P.I. 50+31
P.I. 52+06
P.I. 53+82
P.I. 55+60
P.I. 57+24
P.I. 58+80
P.I. 60+46
P.I. 62+15
P.I. 63+72
P.I. 65+40
P.I. 67+06
P.I. 68+61
P.I. 70+15
P.I. 71+60
P.I. 73+06
P.I. 74+60
P.I. 76+06
P.I. 77+60
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P.I. 80+60
P.I. 82+06
P.I. 83+60
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P.I. 86+60
P.I. 88+06
P.I. 89+60
P.I. 91+06
P.I. 92+60
P.I. 94+06
P.I. 95+60
P.I. 97+06
P.I. 98+60
P.I. 100+06
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P.I. 106+06
P.I. 107+60
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P.I. 110+60
P.I. 112+06
P.I. 113+60
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P.I. 121+06
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U.S. PUBLIC WORKS
PROJECT NO.

FED. RD. DIST. NO.	STATE	FED. AID PROJECT
10	OHIO	N.H.P.H. 573-C

VINTON COU
S.H. 336 SEC

CULVERTS

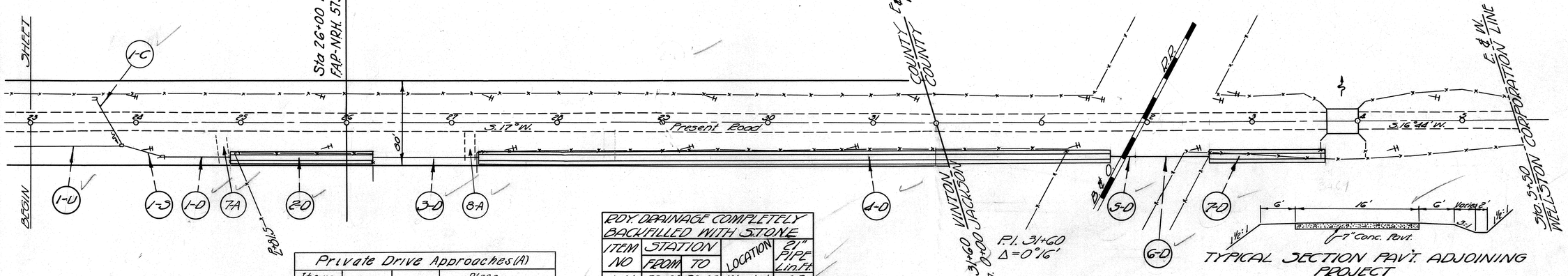
ITEM NO	STATION	TYPE	SIZE	EXCAVATION Cu.Yds.	1:5½ CONC. Cu.Yds.	REINF. STEEL Lbs.	15" PIPE Lin.Ft.	STD. CATCH BASIN NO. 2-3 Units	REMARKS
1-C	23+75	STR. Type culvert	15"x30"	20.	1.9	24.	30.	1.	Details shown on Sheet G.I.
TOTALS				28	1.9	24	30	1.	

Thickness of Present Pavement

Station	Left Side	Right Side
25+00	10½"	10½"
30+00	9¾	10"

24" STORM SEWER

ITEM NO	STATION FROM	STATION TO	PIPE Lin.Ft.	SPECIAL OUTLET STA.	1:5½ CONC. Cu.Yds.	REINF. STEEL Lbs.	EXC. Cu.Yds.
1-S	225' West 23+88	325' West 24+21	30.	24+25	6.8	172.	12.
TOTALS			30.		6.8	172.	12.



TYPICAL SECTION PAV'T. ADJOINING PROJECT

Private Drive Approaches (A)

Item No.	Station	Side	Place Corr. M.P. Lin.Ft.	Place Aggregate Cu.Yds.
7-A	24+80	Rt.		5
Total.				5

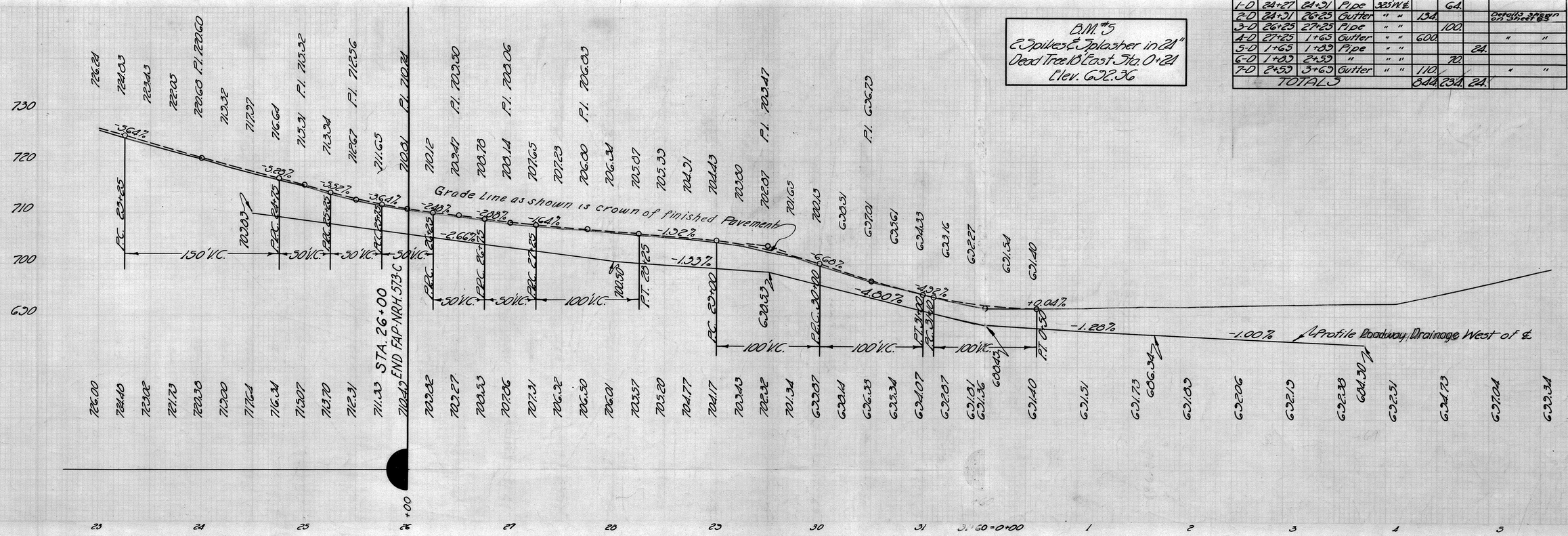
RDY. DRAINAGE COMPLETELY BACKFILLED WITH STONE

ITEM NO	STATION FROM	STATION TO	LOCATION	21" PIPE Lin.Ft.
1-U	23+00	23+85	West ℄	85.
TOTAL				85.

ROADWAY DRAINAGE

ITEM NO	STATION FROM	STATION TO	TYPE	LOCATION	CONC. GUTTER 1:5½ Lin.Ft.	36" Corr. M.P. or V.S.P. (Equiv.) Enc. Lin.Ft.	36" CAST I. PIPE Lin.Ft.	REMARKS
1-D	24+27	24+31	Pipe	325' W. ℄		64.		
2-D	24+31	26+25	Gutter	" "	134.			Details shown on Sheet G.I.
3-D	26+25	27+25	Pipe	" "		100.		
4-D	27+25	1+65	Gutter	" "	600.			" "
5-D	1+65	1+89	Pipe	" "			24.	
6-D	1+89	2+59	"	" "		70.		
7-D	2+59	3+69	Gutter	" "	110.			" "
TOTALS					844.	234.	24.	

B.M. #5
2 Spikes ℄ Splasher in 21" Dead Tree ℄ East Sta. 0+21
Elev. 632.36



U. S. PUBLIC WORKS
PROJECT NO.

FedAid | STATE | FedAid | Fiscal

P.C 61+08.72 — P.T. 65+50.39

D = 2°00' Lt.

LEFT					RIGHT		
Deduct from Gr. Elev.	Edge of Pavt.	Width	Station	Grade Elev.	Width	Edge of Pavt.	Add to Edge Gr.
.17	720.41	10'	60+08.72	720.58	10'	720.41	.00
	720.45		+ 25	720.62		720.51	.06
	720.55		+ 50	720.72		720.70	.15
	720.67		+ 75	720.84		720.91	.24
	720.82		61+00	720.99		721.15	.33
	721.00		+ 25	721.17		721.42	.42
	721.20		+ 50	721.37		721.71	.51
	721.28		61+58.72	721.45		721.82	.54
	721.43		+ 75	721.60		721.97	
	721.69		62+00	721.86		722.23	
	721.97		+ 25	722.14		722.51	
	722.29		+ 50	722.46		722.83	
	722.62		+ 75	722.79		723.16	
	722.99		63+00	723.16		723.53	
	723.39		+ 25	723.56		723.93	
	723.79		+ 50	723.96		724.33	
	724.25		+ 75	724.42		724.79	
	724.73		64+00	724.90		725.27	
	725.23		+ 25	725.40		725.77	
	725.76		+ 50	725.93		726.30	
	726.32		+ 75	726.49		726.86	
	726.89		65+00	727.06		727.43	
	726.89		65+00.39	727.06		727.43	.54
	727.51		+ 25	727.68		727.96	.45
	728.15		+ 50	728.32		728.51	.36
	728.80		+ 75	728.97		729.07	.27
	729.45		66+00	729.62		729.63	.18
	730.11		+ 25	730.28		730.20	.09
	730.76		+ 50	730.93		730.76	.00
.17	730.76	10'	66+50.39	730.93	10'	730.76	.00

No Extra Pavement

P.C. 67+62.76 — P.C.C. 78+00

D = 1°00' Rt.

LEFT					RIGHT		
Add to Gr. Edge Gr.	Edge of Pavt.	Width	Station	Grade Elev.	Width	Edge of Pavt.	Deduct from Gr. Elev.
.00	731.09	10'	66+62.76	731.26	10'	731.09	.17
.03	731.44		+ 75	731.58		731.41	
.09	732.15		67+00	732.23		732.06	
.15	732.86		+ 25	732.88		732.71	
.21	733.57		+ 50	733.53		733.36	
.27	734.28		+ 75	734.18		734.01	
.33	734.99		68+00	734.83		734.66	
.36	735.35		+ 12.76	735.16		734.99	
	735.68		+ 25	735.49		735.32	
	736.33		+ 50	736.14		735.97	
	736.98		+ 75	736.79		736.62	
	737.63		69+00	737.44		737.27	
	738.29		+ 25	738.10		737.93	
	738.94		+ 50	738.75		738.58	
	739.59		+ 75	739.40		739.23	
	740.24		70+00	740.05		739.88	
	740.89		+ 25	740.70		740.53	
	741.54		+ 50	741.35		741.18	
	742.19		+ 75	742.00		741.83	
	742.84		71+00	742.65		742.48	
	743.50		+ 25	743.31		743.14	
	744.14		+ 50	743.95		743.78	
	744.79		+ 75	744.60		744.43	
	745.45		72+00	745.26		745.09	
	746.11		+ 25	745.92		745.75	
	746.76		+ 50	746.57		746.40	
	747.41		+ 75	747.22		747.05	
	748.06		73+00	747.87		747.70	
	748.72		+ 25	748.53		748.36	
	749.36		+ 50	749.17		749.00	
	750.02		+ 75	749.83		749.66	
	750.67		74+00	750.48		750.31	
	751.32		+ 25	751.13		750.96	
	751.98		+ 50	751.79		751.62	
	752.63		+ 75	752.44		752.27	
	753.28		75+00	753.09		752.92	
	753.93		+ 25	753.74		753.57	
	754.58		+ 50	754.39		754.22	
	755.21		+ 75	755.02		754.85	
	755.80		76+00	755.61		755.44	
	756.45		+ 25	756.26		756.09	
	757.02		+ 50	756.83		756.66	
	757.67		+ 75	757.48		757.31	
	758.28		77+00	758.09		757.92	
	758.87		+ 25	758.68		758.51	
.36	759.46		+ 50	759.27		759.10	
.30	759.92		+ 75	759.85		759.62	
.24	760.49		78+00	760.42		760.25	
.18	761.08		+ 25	761.07		760.90	
.12	761.83		+ 50	761.88		761.71	
.09	762.69		+ 75	762.77		762.60	
.09	763.58	10'	79+00	763.66	10'	763.49	.17

No Extra Pavement

P.C.C. 78+00 — P.C.C. 83+00

D = 0°20' Rt.

LEFT					RIGHT		
Add to Gr. Edge Gr.	Edge of Pavt.	Width	Station	Grade Elev.	Width	Edge of Pavt.	Deduct from Gr. Elev.
.36	758.28	10'	77+00	758.09	10'	757.92	.17
.36	758.87		+ 25	758.68		758.51	
.36	759.46		+ 50	759.27		759.10	
.30	759.92		+ 75	759.85		759.62	
.24	760.49		78+00	760.42		760.25	
.18	761.08		+ 25	761.07		760.90	
.12	761.83		+ 50	761.88		761.71	
.09	762.69		+ 75	762.77		762.60	
	763.58		79+00	763.66		763.49	
	764.36		+ 25	764.44		764.27	
	764.94		+ 50	765.02		764.85	
	765.41		+ 75	765.49		765.32	
	765.88		80+00	765.96		765.79	
	766.35		+ 25	766.43		766.26	
	766.84		+ 50	766.92		766.75	
	767.39		+ 75	767.47		767.30	
	767.96		81+00	768.04		767.87	
	768.53		+ 25	768.61		768.44	
	769.10		+ 50	769.18		769.01	
	769.67		+ 75	769.75		769.58	
	770.24		82+00	770.32		770.15	
.09	770.81		+ 25	770.89		770.72	
.14	771.40		+ 50	771.43		771.26	
.21	771.95		+ 75	771.91		771.74	
.28	772.47		83+00	772.36		772.19	
.35	772.99		+ 25	772.81		772.64	
.42	773.51		+ 50	773.26		773.09	
.42	773.96		+ 75	773.71		773.54	
.42	774.38	10'	84+00	774.13	10'	773.96	.17

No Extra Pavement

P.C.C. 83+00 — P.T. 85+50

D = 1°20' Rt.

LEFT					RIGHT		
Add to Gr. Edge Gr.	Edge of Pavt.	Width	Station	Grade Elev.	Width	Edge of Pavt.	Deduct from Gr. Elev.
.09	770.24	10'	82+00	770.32	10'	770.15	.17
.09	770.81		+ 25	770.89		770.72	
.14	771.40		+ 50	771.43		771.26	
.21	771.95		+ 75	771.91		771.74	
.28	772.47		83+00	772.36		772.19	
.35	772.99		+ 25	772.81		772.64	
.42	773.51		+ 50	773.26		773.09	
	773.96		+ 75	773.71		773.54	
	774.38		84+00	774.13		773.96	
	774.74		+ 25	774.49		774.32	
	775.07		+ 50	774.82		774.65	
	775.40		+ 75	775.15		774.98	
.42	775.73		85+00	775.48		775.31	
.35	775.91		+ 25	775.73		775.56	
.28	775.92		+ 50	775.81		775.64	
.21	775.76		+ 75	775.72		775.55	
.14	775.43		86+00	775.46		775.29	
.07	775.02		+ 25	775.12		774.95	
.00	774.61	10'	86+50	774.78	10'	774.61	.17

No Extra Pavement

P.C. 89+00 — P.T. 101+25

D = 0°56' Lt.

LEFT					RIGHT		
Deduct from Gr. Elev.	Edge of Pavt.	Width	Station	Grade Elev.	Width	Edge of Pavt.	Add to Edge Gr.
.17	773.38	10'	88+00	773.55	10'	773.38	.00
	773.05		+ 25	773.22		773.10	.05
	772.65		+ 50	772.82		772.76	.11
	772.25		+ 75	772.42		772.42	.17
	771.85		89+00	772.02		772.08	.23
	771.45		+ 25	771.62		771.74	.29
	771.00		+ 50	771.17		771.34	.34
	770.45		+ 75	770.62		770.79	
	769.85		90+00	770.02		770.19	
	769.25		+ 25	769.42		769.59	
	768.65		+ 50	768.82		768.99	
	768.05		+ 75	768.22		768.39	
	767.45		91+00	767.62		767.79	
	766.85		+ 25	767.02		767.19	
	766.33		+ 50	766.50		766.67	
	765.98		+ 75	766.15		766.32	
	765.71		92+00	765.88		766.05	
	765.44		+ 25	765.61		765.78	
	765.29		+ 50	765.46		765.63	
	765.40		+ 75	765.57		765.74	
	765.63		93+00	765.80		765.97	
	765.86		+ 25	766.03		766.20	
	766.09		+ 50	766.26		766.43	
	766.32		+ 75	766.49		766.66	
	766.55		94+00	766.72		766.89	
	766.78		+ 25	766.95		767.12	
	767.09		+ 50	767.26		767.43	
	767.56		+ 75	767.73		767.90	
	768.11		95+00	768.28		768.45	
	768.66		+ 25	768.83		769.00	
	769.21		+ 50	769.38		769.55	
	769.73		+ 75	769.90		770.07	
	770.18		96+00	770.35		770.52	
	770.56		+ 25	770.73		770.90	
	770.88		+ 50	771.05		771.22	
	771.13		+ 75	771.30		771.47	
	771.31		97+00	771.48		771.65	
	771.46		+ 25	771.63		771.80	
	771.61		+ 50	771.78		771.95	
	771.85		+ 75	772.02		772.19	
	772.25		98+00	772.42		772.59	
	772.74		+ 25	772.91		773.08	
	773.23		+ 50	773.40		773.57	
	773.80		+ 75	773.97		774.14	
	773.87		99+00	774.04		774.21	
	774.02		+ 25	774.19		774.36	
	774.17		+ 50	774.34		774.51	
	774.40		+ 75	774.57		774.74	
	774.81		100+00	774.98		775.15	
	775.34		+ 25	775.51		775.68	
	776.05		+ 50	776.22		776.39	
	776.84		+ 75	777.01		777.18	.34
	777.63		101+00	777.80		777.92	.29
	778.42		+ 25	778.59		778.65	.23
	779.21		+ 50	779.38		779.38	.17
	780.00		+ 75	780.17		780.11	.11
	780.79		102+00	780.96		780.84	.05
.17	781.58	10'	102+25	781.75	10'	781.58	.00

No Extra Pavement

U.S. PUBLIC WORKS
PROJECT NO.

P.C. 116+97.30 P.T. 121+75.60

D=1°00 Rt.

LEFT					RIGHT		
Add to Rt. Edge Gr.	Edge of Pavt.	Width	Station	Grade Elev.	Width	Edge of Pavt.	Deduct from Gr. Elev.
.00	800.61	10'	115+97.30	800.78	10'	800.61	.17
.01	800.49		116+00	800.65		800.48	
.07	799.27		+25	799.37		799.20	
.13	797.96		+50	798.00		797.83	
.19	796.60		+75	796.58		796.41	
.25	795.24		117+00	795.16		794.99	
.31	793.88		+25	793.74		793.57	
.36	792.67		117+47.30	792.48		792.31	
	792.52		+50	792.33		792.16	
	791.10		+75	790.91		790.74	
	789.69		118+00	789.50		789.33	
	788.27		+25	788.08		787.91	
	786.86		+50	786.67		786.50	
	785.44		+75	785.25		785.08	
	784.02		119+00	783.83		783.66	
	782.60		+25	782.41		782.24	
	781.19		+50	781.00		780.83	
	779.77		+75	779.58		779.41	
	778.35		120+00	778.16		777.99	
	776.93		+25	776.74		776.57	
	775.52		+50	775.33		775.16	
	774.10		+75	773.91		773.74	
	772.68		121+00	772.49		772.32	
	771.26		+25	771.07		770.90	
.36	771.23		121+25.60	771.04		770.87	
.30	769.79		+50	769.66		769.49	
.24	768.31		+75	768.24		768.07	
.18	766.84		122+00	766.83		766.66	
.12	765.36		+25	765.41		765.24	
.06	763.88		+50	763.99		763.82	
.00	762.40		+75	762.57		762.40	
.00	762.37	10'	122+75.60	762.54	10'	762.37	.17

No Extra Pavement

P.C. 189+27.50 P.T. 194+97.50

D=1°00' Rt.

LEFT					RIGHT		
Add to Rt. Edge Gr.	Edge of Pavt.	Width	Station	Grade Elev.	Width	Edge of Pavt.	Deduct from Gr. Elev.
.00	746.17	10'	188+27.50	746.34	10'	746.17	.17
.05	746.39		+50	746.51		746.34	
.11	746.59		+75	746.65		746.48	
.17	746.75		189+00	746.75		746.58	
.23	746.91		+25	746.85		746.68	
.29	747.07		+50	746.95		746.78	
.35	747.23		+75	747.05		746.88	
.36	747.25		189+71.50	747.06		746.89	
	747.34		190+00	747.15		746.98	
	747.35		+25	747.16		746.99	
	747.16		+50	746.97		746.80	
	746.77		+75	746.58		746.41	
	746.20		191+00	746.01		745.84	
	745.61		+25	745.42		745.25	
	745.17		+50	744.98		744.81	
	744.81		+75	744.62		744.45	
	744.35		192+00	744.16		743.99	
	743.97		+25	743.78		743.61	
	742.99		+50	742.80		742.63	
	741.94		+75	741.75		741.58	
	740.81		193+00	740.62		740.45	
	739.63		+25	739.44		739.27	
	738.45		+50	738.26		738.09	
	737.27		+75	737.08		736.91	
	736.09		194+00	735.90		735.73	
	734.91		+25	734.72		734.55	
.36	733.92		194+47.50	733.73		733.56	
.35	733.80		+50	733.62		733.45	
.29	732.81		+75	732.69		732.52	
.23	731.99		195+00	731.93		731.76	
.17	731.34		+25	731.34		731.17	
.11	730.81		+50	730.87		730.70	
.05	730.36		+75	730.48		730.31	
.00	729.99	10'	195+97.50	730.16	10'	729.99	.17

No Extra Pavement

P.C. 145+74.44 P.T. 159+92.52

D=4°30' Rt.

LEFT					RIGHT		
Add to Rt. Edge Gr.	Edge of Pavt.	Width	Station	Grade Elev.	Width	Edge of Pavt.	Deduct from Gr. Elev.
.00	737.34	10'	144+74.44	737.51	10'	737.34	.17
.00	737.34		+75	737.51		737.34	
.17	737.64		145+00	737.64		737.47	
.33	737.92		+25	737.76		737.59	
.50	738.21		+50	737.88		737.71	
.66	738.49		+75	738.00		737.83	
.83	738.79		146+00	738.13		737.96	
.99	739.07		+24.44	738.25		738.08	
	739.07		+25	738.25		738.08	
	739.19		+50	738.37		738.20	
	739.31		+75	738.49		738.32	
	739.43		147+00	738.61		738.44	
	739.55		+25	738.73		738.56	
	739.68		+50	738.86		738.69	
	739.80		+75	738.98		738.81	
	739.92		148+00	739.10		738.93	
	740.05		+25	739.23		739.06	
	740.22		+50	739.40		739.23	
	740.41		+75	739.59		739.42	
	740.63		149+00	739.81		739.64	
	740.87		+25	740.05		739.88	
	741.14		+50	740.32		740.15	
	741.44		+75	740.62		740.45	
	741.77		150+00	740.95		740.78	
	742.11		+25	741.29		741.12	
	742.49		+50	741.67		741.50	
	742.90		+75	742.08		741.91	
	743.35		151+00	742.53		742.36	
	743.80		+25	742.98		742.81	
	744.29		+50	743.47		743.30	
	744.80		+75	743.98		743.81	
	745.35		152+00	744.53		744.36	
	745.91		+25	745.09		744.92	
	746.46		+50	745.64		745.47	
	747.03		+75	746.21		746.04	
	747.58		153+00	746.76		746.59	
	748.14		+25	747.32		747.15	
	748.69		+50	747.87		747.70	
	749.25		+75	748.43		748.26	
	749.80		154+00	748.98		748.81	
	750.36		+25	749.54		749.37	
	750.91		+50	750.09		749.92	
	751.47		+75	750.65		750.48	
	752.02		155+00	751.20		751.03	
	752.58		+25	751.76		751.59	
	753.14		+50	752.32		752.15	
	753.69		+75	752.87		752.70	
	754.24		156+00	753.42		753.25	
	754.80		+25	753.98		753.81	
	755.35		+50	754.53		754.36	
	755.91		+75	755.09		754.92	
	756.47		157+00	755.65		755.48	
	757.02		+25	756.20		756.03	
	757.56		+50	756.74		756.57	
	758.07		+75	757.25		757.08	
	758.55		158+00	757.73		757.56	
	759.01		+25	758.19		758.02	
	759.42		+50	758.60		758.43	
	759.81		+75	758.99		758.82	
	760.17		159+00	759.35		759.18	
	760.25		+25	759.43		759.26	
.99	760.27		+42.52	759.45		759.28	
.96	760.25		+50	759.46		759.29	
.80	760.10		+75	759.47		759.30	
.63	759.90		160+00	759.44		759.27	
.47	759.69		+25	759.39		759.22	
.30	759.43		+50	759.30		759.13	
.14	759.16		+72	759.19		759.02	
.00	758.91	10'	160+92.52	759.08	10'	758.91	.17

No Extra Pavement

P.C. 171+79.50 P.T. 179+53.60

D=2°00' Lt.

LEFT					RIGHT		
Deduct from Gr. Elev.	Edge of Pavt.	Width	Station	Grade Elev.	Width	Edge of Pavt.	Add to Edge Gr.
.17	751.50	10'	170+79.50	751.67	10'	751.50	.00
	751.38		171+00	751.55		751.45	.07
	751.26		+25	751.43		751.42	.16
	751.20		+50	751.37		751.45	.25
	751.17		+75	751.34		751.51	.34
	751.16		172+00	751.33		751.59	.43
	751.20		+25	751.37		751.72	.52
	751.21		172+29.50	751.38		751.75	.54
	751.26		+50	751.43		751.80	
	751.32		+75	751.49		751.86	
	751.38		173+00	751.55		751.92	
	751.44		+25	751.61		751.98	
	751.46		+50	751.63		752.00	
	751.50		+75	751.67		752.04	
	751.27		174+00	751.44		751.81	
	751.06		+25	751.23		751.60	
	750.81		+50	750.98		751.35	
	750.56		+75	750.73		751.10	
	750.31		175+00	750.48		750.85	
	750.08		+25	750.25		750.62	
	749.89		+50	750.06		750.43	
	749.72		+75	749.89		750.26	
	749.55		176+00	749.72		750.09	
	749.43		+25	749.60		749.97	
	749.36		+50	749.53		749.90	
	749.34		+75	749.51		749.88	
	749.39		177+00	749.56		749.93	
	749.58		+20	749.75		750.12	
	749.84		+50	750.01		750.38	
	750.01		+75	750.18		750.55	
	749.99		178+00	750.16		750.53	
	749.88		+25	750.05		750.42	
	749.71		+50	749.89		750.25	
	749.44		+75	749.61		749.98	
	749.11		179+00	749.28		749.65	
	749.06		+0360	749.23		749.60	.54
	748.78		+25	748.95		749.24	.46
	748.42		+50	748.59		748.79	.37
	748.01		+75	748.18		748.29	.28
	747.57		180+00	747.74		747.76	.19
	747.13		+25	747.30		747.23	.10
	746.75		+50	746.92		746.76	.01
.17	746.71	10'	180+53.60	746.88	10'	746.71	.00

No Extra Pavement

P.C. 216+22.20 P.T. 230+00.50

D=2°00' Lt.

LEFT					RIGHT		
Deduct from Gr. Elev.	Edge of Pavt.	Width	Station	Grade Elev.	Width	Edge of Pavt.	Add to Edge Gr.
.17	715.48	10'	215+22.20	715.65	10'	715.48	.00
	715.49		+25	715.66		715.50	.01
	715.54		+50	715.71		715.64	.10
	715.59		+75	715.76		715.78	.19
	715.64		216+00	715.81		715.92	.28
	715.69		+25	715.86		716.06	.37
	715.74		+50	715.91		716.20	.46
	715.78		216+72.20	715.95		716.32	.54
	715.79		+75	715.96		716.33	
	715.91		217+00	716.08		716.45	
	716.18		+25	716.35		716.72	
	716.56		+50	716.73		717.10	
	717.04		+75	717.21		717.58	
	717.61		218+00	717.78		718.15	
	718.29		+25	718.46		718.83	
	719.02		+50	719.19		719.56	
	719.75		+75	719.92		720.29	
	720.61		219+00	720.78		721.15	
	721.76		+25	721.93		722.30	
	723.04		+50	723.21		723.58	
	724.38		+75	724.55		724.92	
	725.86		220+00	726.03		726.40	
	727.37		+25	727.54		727.91	
	728.84		+50	729.01		729.38	
	730.28		+75	730.45		730.82	
	731.70		221+00	731.87		732.24	
	733.07		+25	733.24		733.61	
	734.34		+50	734.51		734.88	
	735.44		+75	735.61		735.98	
	736.46		222+00	736.63		737.00	
	737.48		+25	737.65		738.02	
	738.41		+50	738.58		738.95	
	739.17		+75	739.34		739.71	
	739.84		223+00	740.01		740.38	
	740.42		+25	740.59		740.96	
	740.83		+50	741.00		741.37	
	741.07		+75	741.24		741.61	
	741.15		224+00	741.32		741.69	
	741.10		+25	741.27		741.64	
	740.94		+50	741.11		741.48	
	740.73		+75	740.90		741.27	
	740.52		225+00	740.69		741.06	
	740.29		+25	740.46		740.83	
	740.02		+50	740.19		740.56	
	739.73		+75	739.90		740.27	
	739.44		226+00	739.61		739.98	
	739.15		+25	739.32		739.69	
	738.86		+50	739.03		739.40	
	738.37		+75	738.54		738.91	
	737.48		227+00	737.65		738.02	
	736.39		+25	736.56		736.93	
	735.30		+50	735.47		735.84	
	734.21		+75	734.38		734.75	
	733.12		228+00	733.29		733.66	
	732.03		+75	732.20		732.57	
	730.87		+50	731.04		731.41	
	729.55		+75	729.72		730.09	
	728.16		229+00	728.33		728.70	
	726.83		+25	727.00		727.37	
	725.63		+50	725.80		726.17	
	725.61		229+50.50	725.78		726.15	.54
	724.50		+75	724.67		724.95	.45
	723.46		230+00	723.63		723.82	.36
	722.63		+25	722.80		722.90	.27
	721.99		+50	722.16		722.17	.18
	721.56		+75	721.73		721.65	.09
	721.34		231+00	721.51		721.34	.00
.17	721.34	10'	231+00.50	721.51	10'	721.34	.00

No Extra Pavement

Fed Aid District	State	Fed Aid Project	F Y
10	OHIO	N.R.H-5730	19

S.H. (I.C.H. 396 Sec "A
VINTON COU

P.C. 0+94. P.C.C. 2+83.63. P.T. 5+64.74
D=9° & 12°

Left					Right		
Add to Ed. Elev	Edge of Pvt.	Width	Station	Grade Elev	Width	Edge of Pvt.	Adjust from Grade
.00	721.81	10.00	-0+6	721.98	10.00	721.81	.17
.06	722.20		0+0	722.31	10.01	722.14	
.31	723.42		+25	723.28	10.14	723.11	
.54	724.75		+50	724.36	10.48	724.19	
.81	726.01		+75	725.37	10.90	725.20	
1.06	727.21		1+00	726.32	11.62	726.15	
1.31	729.44		+25	728.40	12.17	728.13	
1.50	731.04		+44	729.64	12.33	729.54	
	731.35		+50	730.02		729.85	
	733.05		+75	731.72		731.55	
	734.77		2+00	733.44		733.27	
	736.50		+25	735.17		735.00	
	738.25		+50	736.92		736.75	
	740.03		+75	738.70		738.53	
	741.23		2+83.63	739.90		739.73	
	741.67		3+00	740.34	12.33	740.17	
	743.74		+25	742.41	12.53	742.24	
	744.55		3+33.63	743.06	12.58	742.96	
	745.77		+50	744.34		744.17	
	747.63		+75	746.20		746.03	
	749.62		4+00	748.19		748.02	
	751.51		+25	750.08		749.91	
	753.37		+50	751.94		751.77	
	755.23		+75	753.80		753.63	
	757.11		5+00	755.68		755.51	
1.50	758.24		5+14.74	756.81	12.58	756.64	
1.47	758.88		+25	757.58	12.52	757.41	
1.21	760.54		+50	759.50	12.10	759.33	
1.04	762.32		+75	761.45	11.31	761.28	
.68	763.87		6+00	763.36	10.68	763.19	
.41	765.54		+25	765.30	10.25	765.13	
.15	767.25		+50	767.27	10.04	767.10	
.00	768.25	10.00	+64.74	768.42	10.00	768.25	.17

Extra Pavement 152.0 Sq. Yds.

P.C. 8+96.95 P.T. 11+26.36
D=17° Lt

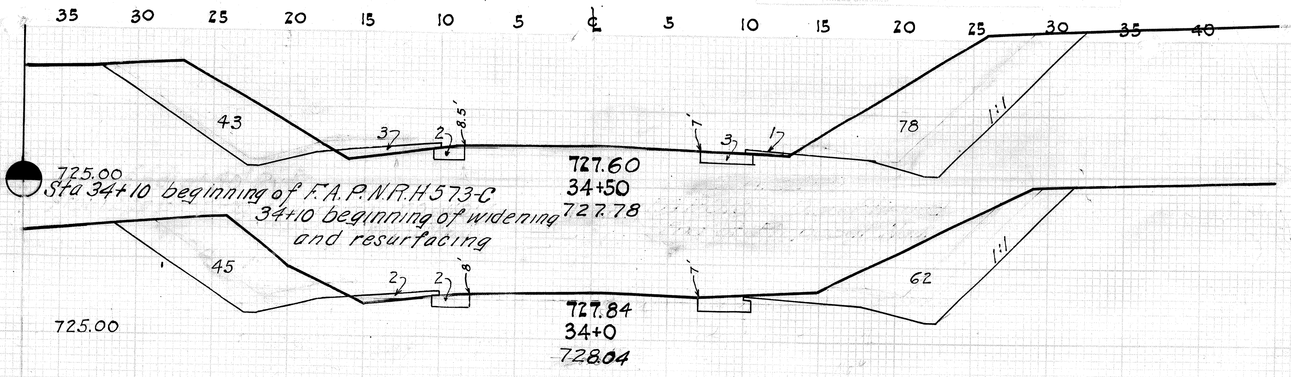
Left					Right		
Deduct from Gr. Elev.	Edge of Pvt	Width	Station	Grade Elev.	Width	Edge of Pvt.	Add to Ed. Elev
.17	778.79	10.00	7+96.95	778.96	10.00	778.79	.00
	779.12	10.01	8+00	779.29		779.17	.05
	781.01	10.18	+25	781.18		781.36	.35
	782.85	10.54	+50	783.02		783.49	.64
	784.66	12.00	+75	784.83		785.60	.94
	786.47	13.00	9+00	786.64		788.27	1.80
	788.23	13.50	+25	788.40		790.06	1.83
	789.51	14.00	+46.95	789.68		791.38	1.87
	789.66	14.00	+50	789.83	10.00	791.46	1.80
	790.70	14.00	+75	790.87	13.50	792.93	1.77
	791.36	14.00	10+00	791.53	14.75	793.60	2.24
	791.64	14.00	+25	791.81	16.00	794.98	2.34
	791.53	14.00	+50	791.70	16.50	793.82	2.29
	791.00	14.00	+76.36	791.17	15.00	793.26	2.26
	790.16	13.75	11+00	790.33	12.30	792.19	2.03
	788.95	12.73	+25	789.12	11.00	790.80	1.85
	787.66	11.70	+50	787.83	10.50	789.39	1.73
	786.36	11.00	+75	786.53	10.00	787.39	1.03
	785.03	10.14	12+00	785.20	10.00	785.55	.52
.17	783.63	10.00	+26.36	783.80	10.00	783.63	.00

Extra Pavement 169.6 Sq. Yds.

ORIGINAL SURVEY — NOTE BOOK — DATE — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

FINAL SURVEY — NOTE BOOK — DATE — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED

END AR. Exc.	END AR. Emb.	Cu. Yds. Exc.	Cu. Yds. Emb.
126	4		
		174	5
109	2		



727.60
34+50
727.78

727.5
33+50

725.6
33+0

723.3
32+50

721.0
32+0

719.3
31+50

717.8
31+0

717.0
30+50

716.2
30+0

715.9
29+50

715.6
29+0

715.1
28+50

714.6
28+0

U.S. PUBLIC WORKS PROJECT NO.

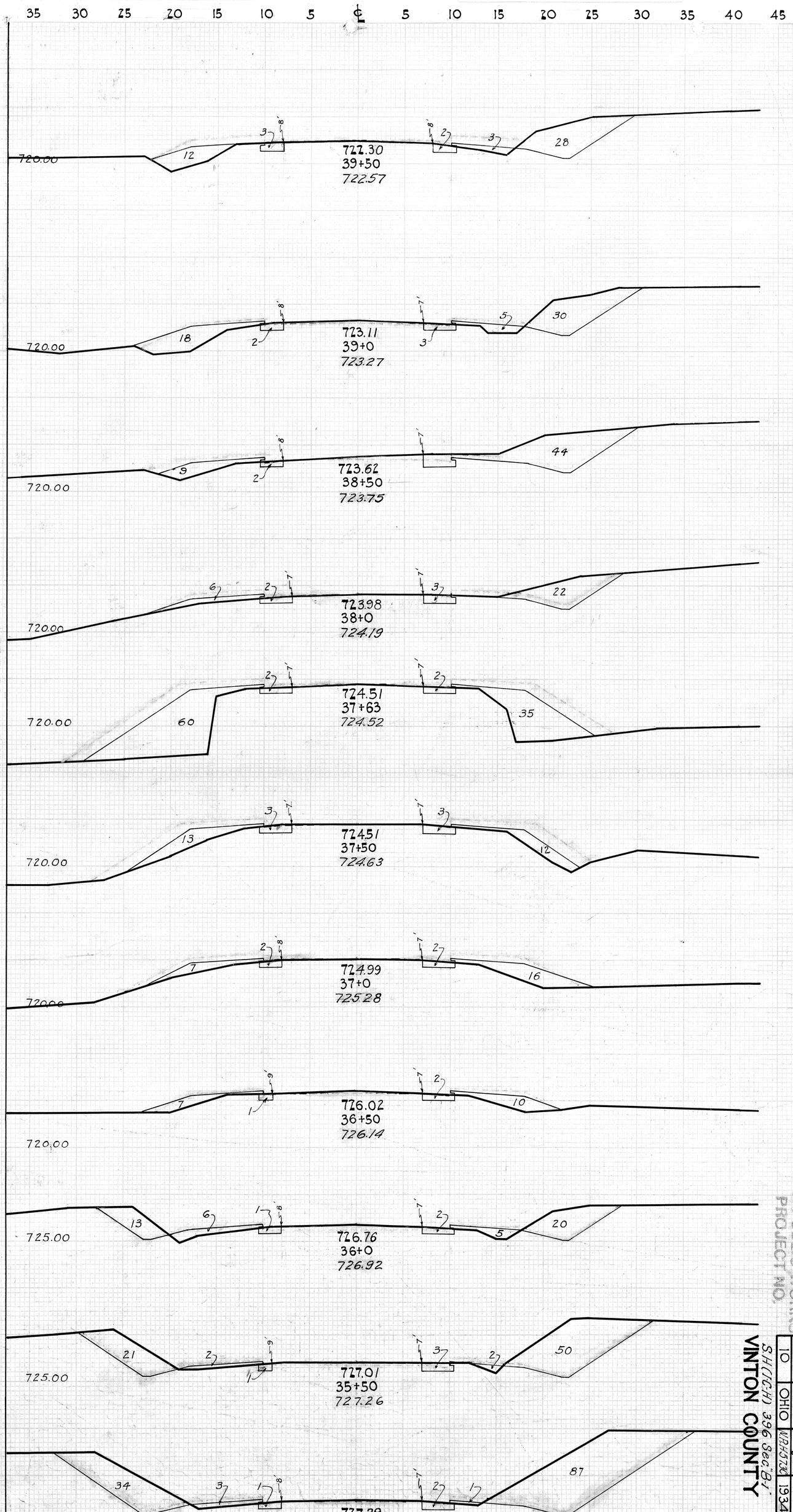
Fed. Aid District	STATE	Fed. Aid Project	Fiscal Year
10	OHIO	WRH573(2)	1934

S.H. (I.C.H.) 396 Sec. By

VINTON COUNTY

ORIGINAL SURVEY — Surveyed, Plotted, Template, Areas, Areas Checked — By — Date — Note Book — No.

FINAL SURVEY — Surveyed, Plotted, Template, Areas, Areas Checked — By — Date — Note Book — No.

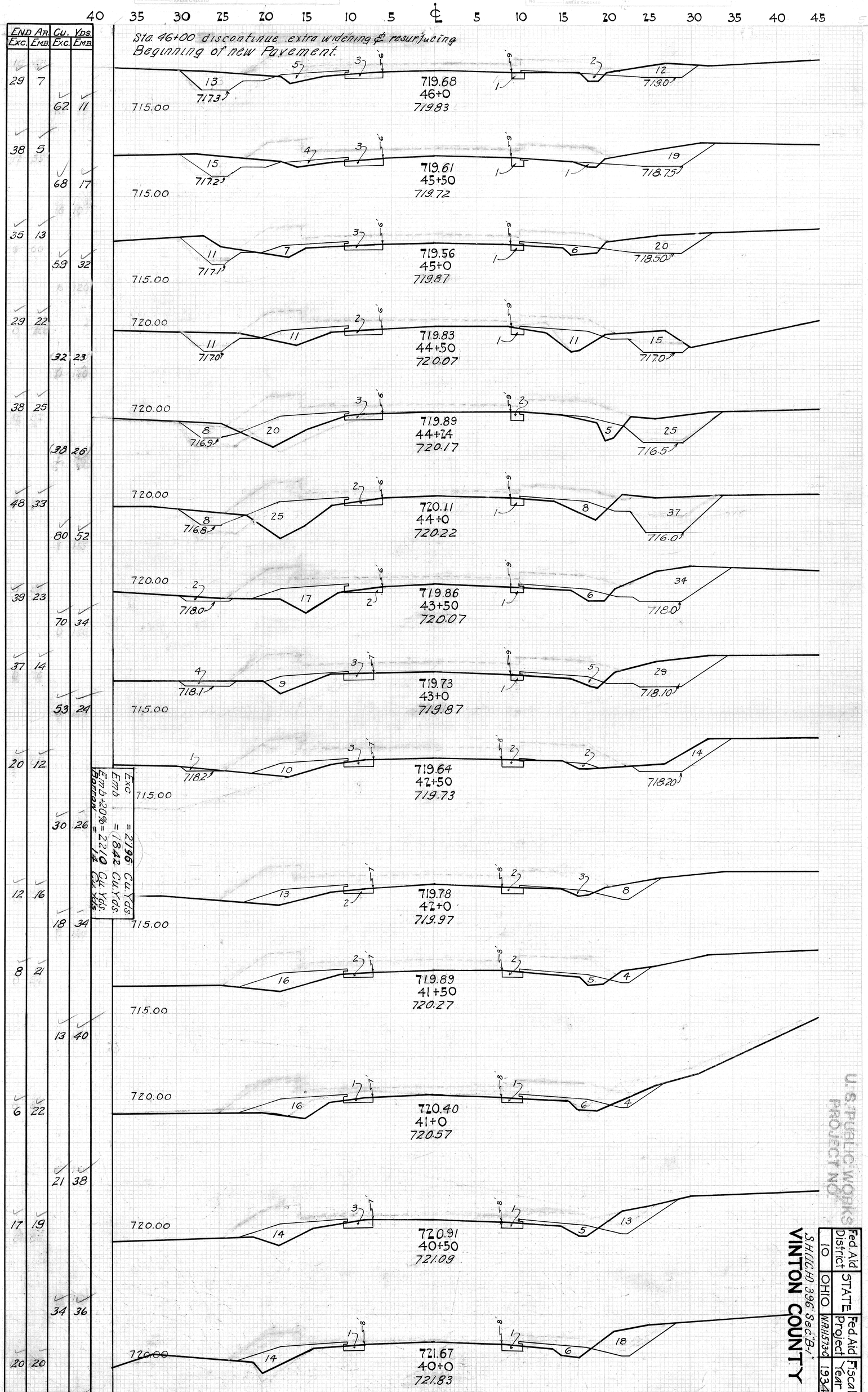


U. S. PUBLIC WORKS
PROJECT NO.

Fed. Aid District	STATE	Fed. Aid Project	Fiscal Year
10	OHIO	124-A(3)B	1934

SHEET (4) 396 Sec'B'

VINTON COUNTY

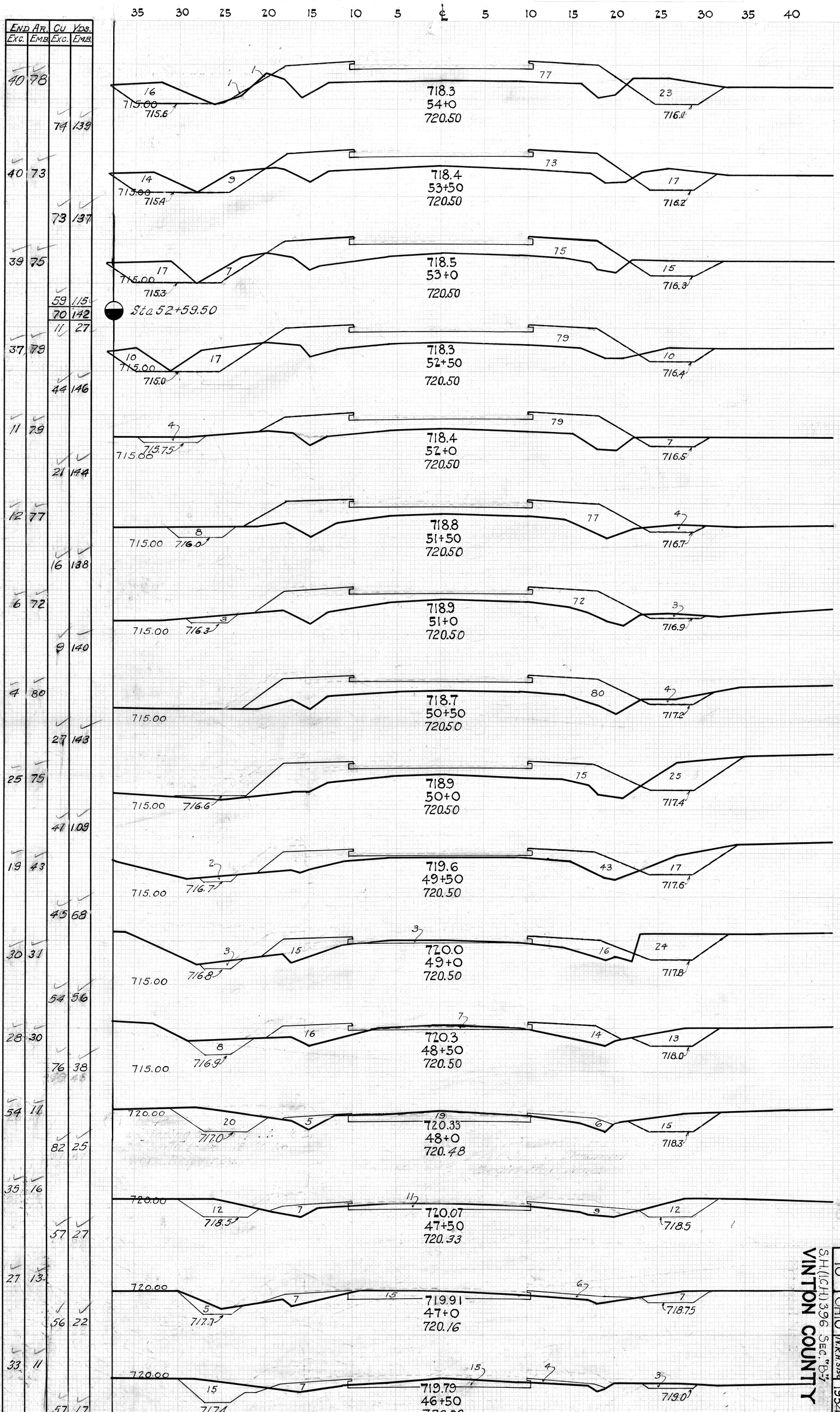


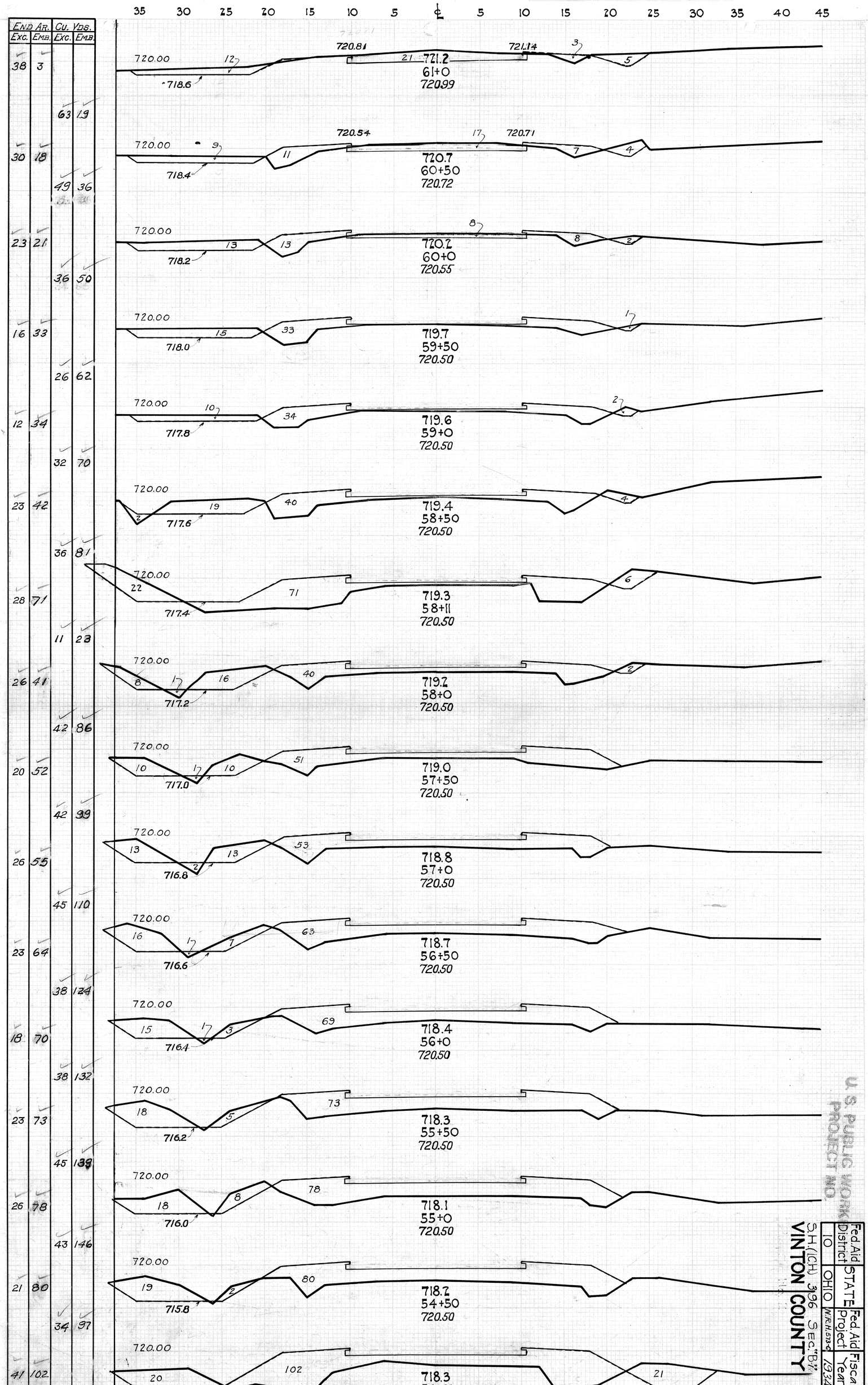
U.S. PUBLIC WORKS
PROJECT NO.

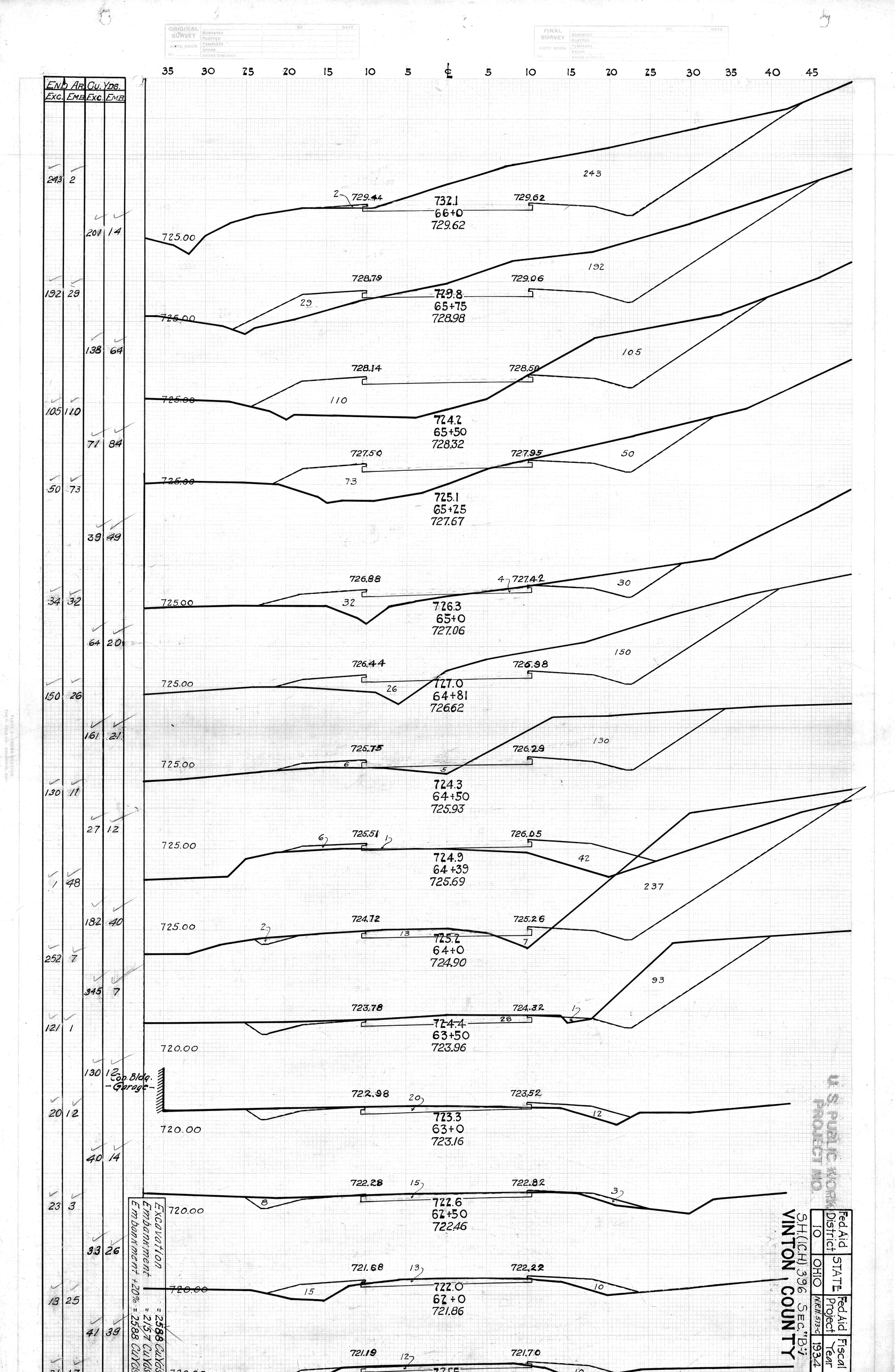
Fed. Aid District	STATE	Fed. Aid Project	Fiscal Year
10	OHIO	WAH573d	1934

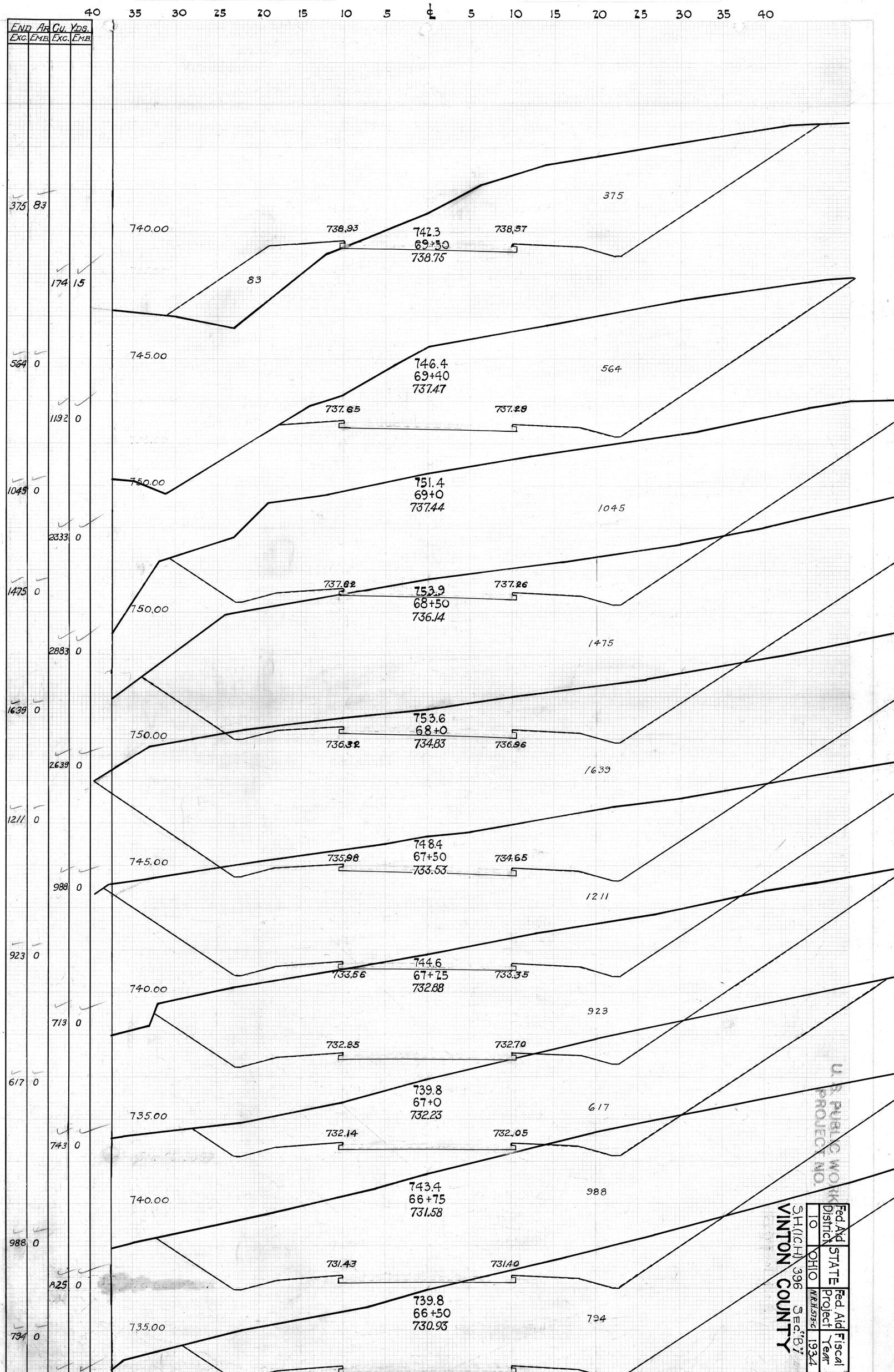
S.H. (C.H.) 396 Sec "B"

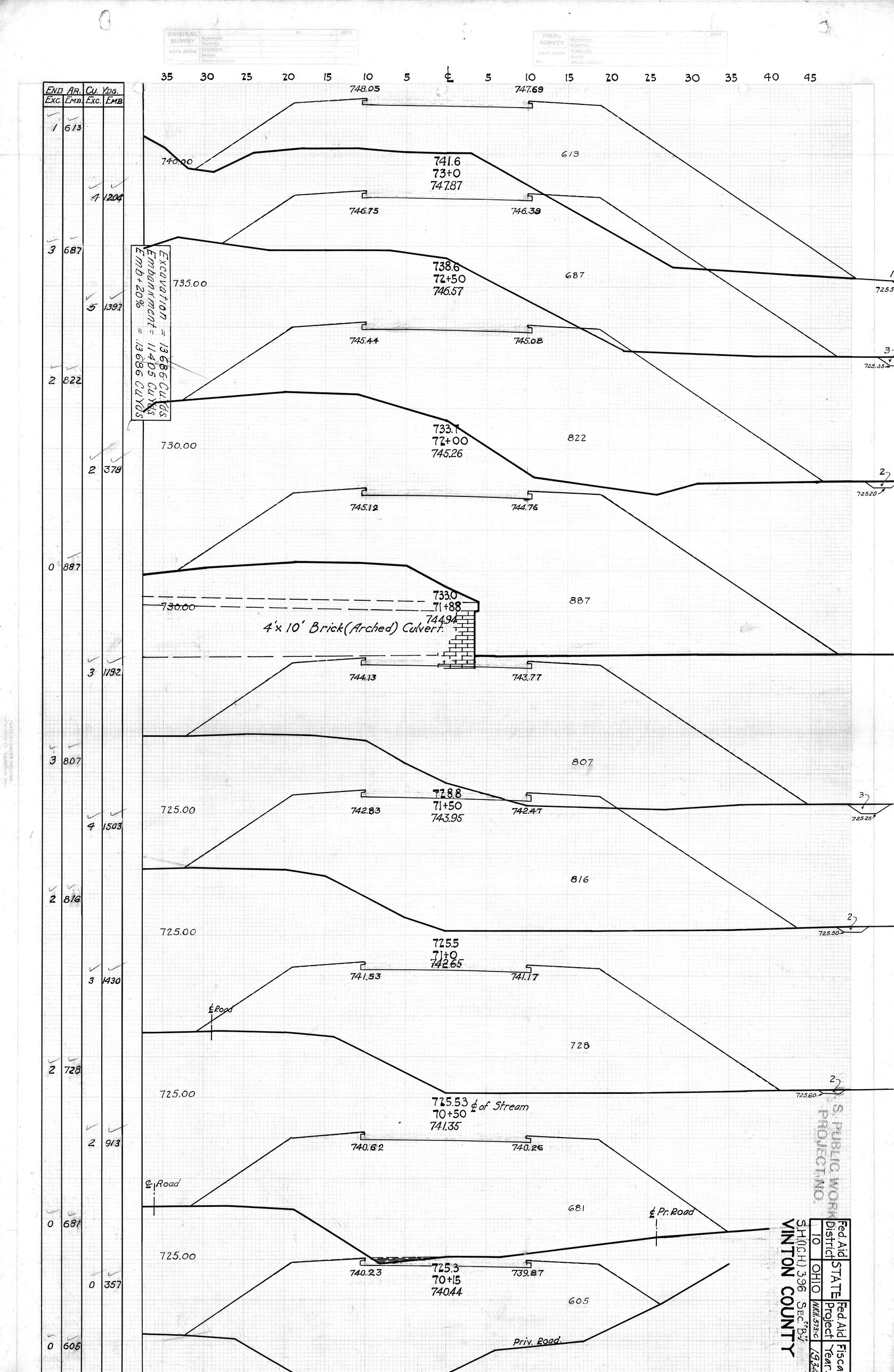
VINTON COUNTY

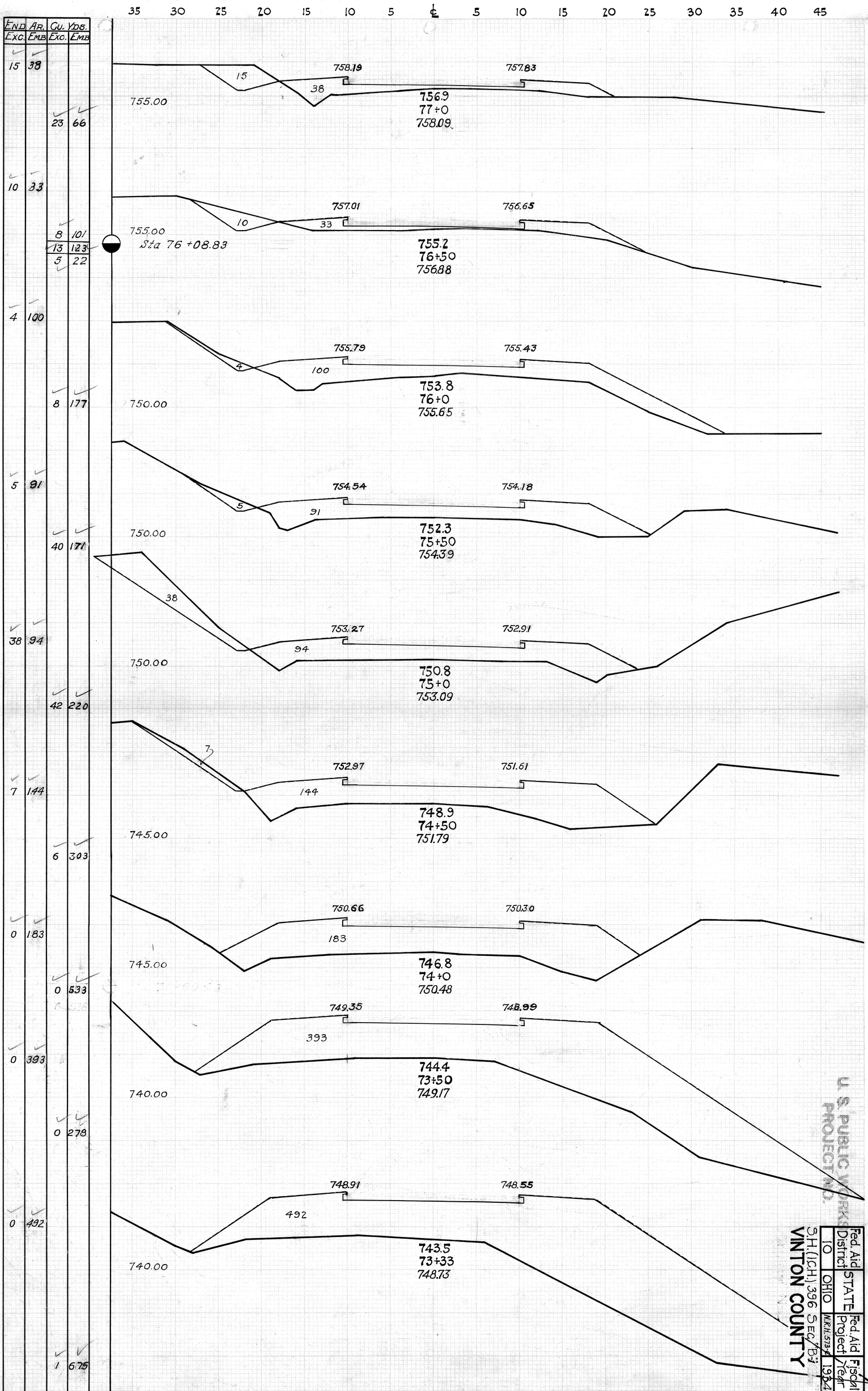

35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40
END AR. EXC. EMB.
CU YDS. EXC. EMB.
40 78
74 139
718.3 54+0 720.50
16 715.00 715.6 1 1 77 23 716.1
40 73
73 137
718.4 53+50 720.50
14 715.00 715.4 9 73 17 716.2
39 75
59 115
70 142
718.5 53+0 720.50
17 715.00 715.3 7 75 15 716.3
Sta 52+59.50
11 27
37 79
44 146
718.3 52+50 720.50
10 715.00 715.0 17 79 10 716.4
11 79
21 144
718.4 52+0 720.50
4 715.88 715.75 79 7 716.5
12 77
16 138
718.8 51+50 720.50
8 715.00 716.0 77 4 716.7
6 72
9 140
718.9 51+0 720.50
715.00 3 716.3 72 3 716.9
4 80
27 143
718.7 50+50 720.50
715.00 80 4 717.2
25 75
41 109
718.9 50+0 720.50
715.00 716.6 75 25 717.4
19 43
45 68
719.6 49+50 720.50
2 715.00 716.7 43 17 717.6
30 31
54 56
720.0 49+0 720.50
3 715.00 716.8 3 15 3 16 24 717.8
28 30
76 38
720.3 48+50 720.50
715.00 8 716.9 16 7 14 13 718.0
54 11
82 25
720.33 48+0 720.48
720.00 20 717.0 5 19 6 15 718.3
35 16
57 27
720.07 47+50 720.33
720.00 12 718.5 7 11 9 12 718.5
27 13
56 22
719.91 47+0 720.16
720.00 5 717.7 7 15 6 7 718.75
33 11
57 17
719.79 46+50
720.00 15 717.4 7 15 4 3 719.0
U. S. PUBLIC WORKS
PROJECT NO.
Fed. Aid District 10
STATE OHIO
Fed. Aid Project N.R.H. 57-A
Fiscal Year 1934
S.H. (ICH) 396 Sec. "B"
VINTON COUNTY


35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45
END AR. EXC. 38 | END AR. EMB. 3 | CU. YDS. EXC. 63 | CU. YDS. EMB. 19
720.00 12 718.6 720.81 21 721.2 61+0 720.99 721.14 3 5
END AR. EXC. 30 | END AR. EMB. 18 | CU. YDS. EXC. 49 | CU. YDS. EMB. 36
720.00 9 718.4 720.54 11 17 720.71 7 4 720.7 60+50 720.72
END AR. EXC. 23 | END AR. EMB. 21 | CU. YDS. EXC. 36 | CU. YDS. EMB. 50
720.00 13 718.2 13 8 8 2 720.7 60+0 720.55
END AR. EXC. 16 | END AR. EMB. 33 | CU. YDS. EXC. 26 | CU. YDS. EMB. 62
720.00 15 718.0 33 719.7 59+50 720.50 1
END AR. EXC. 12 | END AR. EMB. 34 | CU. YDS. EXC. 32 | CU. YDS. EMB. 70
720.00 10 717.8 34 719.6 59+0 720.50 2
END AR. EXC. 23 | END AR. EMB. 42 | CU. YDS. EXC. 36 | CU. YDS. EMB. 81
720.00 2 19 717.6 40 719.4 58+50 720.50 4
END AR. EXC. 28 | END AR. EMB. 71 | CU. YDS. EXC. 11 | CU. YDS. EMB. 28
720.00 22 717.4 71 719.3 58+11 720.50 6
END AR. EXC. 26 | END AR. EMB. 41 | CU. YDS. EXC. 42 | CU. YDS. EMB. 86
720.00 6 17 717.2 16 40 719.2 58+0 720.50 2
END AR. EXC. 20 | END AR. EMB. 52 | CU. YDS. EXC. 42 | CU. YDS. EMB. 99
720.00 10 17 717.0 10 51 719.0 57+50 720.50
END AR. EXC. 26 | END AR. EMB. 55 | CU. YDS. EXC. 45 | CU. YDS. EMB. 110
720.00 13 2 716.8 13 53 718.8 57+0 720.50
END AR. EXC. 23 | END AR. EMB. 64 | CU. YDS. EXC. 38 | CU. YDS. EMB. 124
720.00 16 17 716.6 7 63 718.7 56+50 720.50
END AR. EXC. 18 | END AR. EMB. 70 | CU. YDS. EXC. 38 | CU. YDS. EMB. 132
720.00 15 17 716.4 3 69 718.4 56+0 720.50
END AR. EXC. 23 | END AR. EMB. 73 | CU. YDS. EXC. 45 | CU. YDS. EMB. 138
720.00 18 716.2 5 73 718.3 55+50 720.50
END AR. EXC. 26 | END AR. EMB. 78 | CU. YDS. EXC. 43 | CU. YDS. EMB. 146
720.00 18 716.0 8 78 718.1 55+0 720.50
END AR. EXC. 21 | END AR. EMB. 80 | CU. YDS. EXC. 34 | CU. YDS. EMB. 97
720.00 19 715.8 2 80 718.7 54+50 720.50
END AR. EXC. 41 | END AR. EMB. 102
720.00 20 102 718.3 21
U.S. PUBLIC WORKS PROJECT NO
Fed. Aid District 10 | STATE OHIO | Fed. Aid Project W.E.H.S.D. | Fiscal Year 1934
S.H. (C.H.) 396 SEC. "B"
VINTON COUNTY


ORIGINAL SURVEY
FINAL SURVEY
NOTE BOOK
35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45
END AR. Cu. Yds.
Exc. Emb. Exc. Emb.
243 2
201 14
192 29
138 64
105 110
71 84
50 73
39 49
34 32
64 20
150 26
161 21
130 11
27 12
1 48
182 40
252 7
345 7
121 1
130 12
20 12
40 14
23 3
33 26
13 25
41 39
725.00
729.44
732.1
66+0
729.62
729.62
243
728.79
729.8
65+75
728.98
729.06
192
29
728.14
724.2
65+50
728.32
728.50
105
110
727.50
725.1
65+25
727.67
727.95
50
73
726.88
726.3
65+0
727.06
727.42
30
32
726.44
727.0
64+81
726.62
726.98
150
26
725.75
724.3
64+50
725.93
726.29
130
6
5
725.51
724.9
64+39
725.69
726.05
42
237
724.72
725.2
64+0
724.90
725.26
93
723.78
724.4
63+50
723.96
724.32
720.00
Con. Bldg. - Garage -
722.98
723.3
63+0
723.16
723.52
12
722.28
722.6
62+50
722.46
722.82
3
721.68
722.0
62+0
721.86
722.22
10
721.19
721.70
Excavation = 2588 Cu Yds
Embankment +20% = 2157 Cu Yds
Embankment = 2588 Cu Yds
U.S. PUBLIC ROADS
PROJECT NO.
Fed. Aid District 10
STATE OHIO
Fed. Aid Project NRH-573-C
Fiscal Year 1934
S.H. (I.C.H) 396 SEC. "D"
VINTON COUNTY


ORIGINAL SURVEY
Surveyed
Plotted
Template
Areas
Areas Checked
BY
DATE
NOTE BOOK
No
FINAL SURVEY
40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40
END AR EXC. EMB.
CU. YDS. EXC. EMB.
375 83
174 15
564 0
1192 0
1045 0
2333 0
1475 0
2883 0
1639 0
2639 0
1211 0
988 0
923 0
713 0
617 0
743 0
988 0
825 0
794 0
740.00
738.93
742.3
69+50
738.75
738.57
375
83
745.00
746.4
69+40
737.47
737.65
737.29
564
750.00
751.4
69+0
737.44
1045
737.62
753.9
68+50
736.14
737.26
750.00
1475
753.6
68+0
736.32
734.83
736.96
750.00
1639
748.4
67+50
733.53
735.98
734.65
745.00
1211
744.6
67+75
732.88
733.56
733.35
740.00
923
732.85
732.70
739.8
67+0
732.23
735.00
617
732.14
732.05
743.4
66+75
731.58
740.00
988
731.43
731.40
739.8
66+50
730.93
735.00
794
U.S. PUBLIC WORKS
PROJECT NO.
Fed. Aid District
STATE
Fed. Aid Project
Fiscal Year
10
OHIO
W.P.H.573-C
1934
SH. (I.C.H.) 396 SEC. "B"
VINTON COUNTY


ORIGINAL SURVEY
FINAL SURVEY
35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45
END AR. Exc. Emb.
Cu. Yds. Exc. Emb.
748.05
747.69
740.00
741.6
73+0
747.87
613
746.75
746.39
735.00
738.6
72+50
746.57
687
745.44
745.08
730.00
733.1
72+00
745.26
822
745.12
744.76
730.00
733.0
71+88
744.94
887
4'x 10' Brick (Arched) Culvert.
744.13
743.77
725.00
728.8
71+50
743.95
807
742.83
742.47
725.00
816
725.00
725.5
71+0
742.65
741.53
741.17
℄ Road
728
725.00
725.53 ℄ of Stream
70+50
741.35
740.62
740.26
℄ Road
681
℄ Pr. Road
725.00
740.23
725.3
70+15
740.44
739.87
605
Priv. Road.
Excavation = 13686 Cu Yds
Embankment = 11405 Cu Yds
Emb + 20% = 13686 Cu Yds
1 613
4 1204
3 687
5 1391
2 822
2 378
0 887
3 1192
3 807
4 1503
2 816
3 1430
2 728
2 913
0 681
0 357
0 605
725.5
725.35
725.20
725.25
725.50
725.60
U.S. PUBLIC WORKS PROJECT NO.
Fed. Aid District 10
STATE OHIO
Fed. Aid Project MCM-573-C
Fiscal Year 1934
S.H. (U.S.H.) 396 Sec. "B"
VINTON COUNTY



U. S. PUBLIC WORKS
PROJECT NO.

Fed. Aid District	STATE	Fed. Aid Project	Fiscal Year
10	OHIO	M.R.H.533-A	1934

S.H. (U.S.H.) 396 SEC. "B"

VINTON COUNTY

FEDERAL ROAD DISTRICT NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR
10	OHIO	WAH373-C	1934

I.C.H. No. 396 Sec. "B"
VINTON COUNTY.

U. S. PUBLIC WORKS
PROJECT NO.

	END AREA		CU. YDS.	
	CUT	FILL	CUT	FILL
770.00				
771.43	30	16		
82+50			53	29
771.19	27	15		
770.00			49	28
770.32	26	15		
82+00			54	26
770.12	32	13		
765.00			64	22
769.18	37	11		
81+50			65	17
769.09	33	7		
765.00			41	15
768.04	11	9		
81+00			26	18
767.85	17	10		
765.00			27	22
766.92	12	14		
80+50			33	24
766.58	24	12		
765.00			38	35
765.96	17	26		
80+00			29	59
765.75	11	11		
765.00			30	31
765.02	17	16		
79+50			32	27
764.68	15	12		
760.00			27	24
763.66	8	19		
79+00			9	21
763.49	9	21		
760.00			18	42
761.88	6	22		
78+50			6	43
761.75	3	27		
760.00			3	49
760.42	15	21		
78+00			18	48
759.85	26	13		
755.00			41	61
759.27	37	14		
77+50			63	75
758.4				

Sta 78+25 Discontinue new pavement
Resume extra widening & resurfacing.

770.00 — 774.15 — 87+00 — 773.96

770.00 — 774.78 — 86+50 — 774.43

775.00 — 775.46 — 86+00 — 775.16

775.00 — 775.81 — 85+50 — 775.58

775.00 — 775.48 — 85+00 — 775.33

770.00 — 774.82 — 84+50 — 774.59

770.00 — 774.13 — 84+00 — 773.97

770.00 — 773.26 — 83+50 — 772.94

770.00 — 772.36 — 83+00 — 772.17

Sta. 77+50 to 87+00

U. S. PUBLIC WORKS
PROJECT NO.

FEDERAL ROAD DISTRICT NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR
10	OHIO	N.R.H. 573-C	1934

I.C.H. No. 396 Sec. "B"
VINTON COUNTY

END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
2	43	5	53
3	14	6	33
3	22	16	41
14	22	35	46
24	28	43	50
22	26	37	34
18	11	24	20
8	11	13	22
6	13	12	27
7	16	14	32
8	12	7	20
14	18	13	23
7	20	12	28
3	21	6	29
2	21	3	27
2	30	2	32
2	30	2	40
2	40	2	48
2	40	2	48
2	40	2	48

FEDERAL ROAD DISTRICT NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR
10	OHIO	N.R.H.573-C	1934

I.C.H. No. 396 Sec B
UNION COUNTY.

U. S. PUBLIC WORKS
PROJECT NO.

End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
6	27		
		7	55
1	32		
		3	85
2	60		
		6	90
4	37		
		7	51
4	18		
		7	43
3	28		
		7	71
4	49		
		7	75
4	32		
		7	55
3	27		
		10	36

775.00 — 11 — 10' — 1 — 777.80 — 101+00 — 777.64 — 5' — 3 — 16 — 2

775.00 — 9 — 10' — 1 — 776.22 — 100+50 — 775.94 — 6' — 1 — 23

770.00 — 26 — 10' — 1 — 774.98 — 100+00 — 774.75 — 6' — 1 — 34

770.00 — 24 — 8' — 2 — 774.34 — 99+50 — 774.17 — 7' — 2 — 13

770.00 — 12 — 7' — 2 — 774.04 — 99+00 — 773.89 — 8' — 2 — 6

770.00 — 16 — 7' — 2 — 773.40 — 98+50 — 773.16 — 8' — 1 — 12

770.00 — 33 — 7' — 2 — 772.42 — 98+00 — 772.40 — 8' — 2 — 16

770.00 — 22 — 6' — 3 — 771.78 — 97+50 — 771.61 — 9' — 1 — 10

770.00 — 20 — 6' — 2 — 771.48 — 97+00 — 771.25 — 9' — 1 — 7

790.00 — 20 — 9' — 1 — 793.44 — 105+00 — 793.26 — 7' — 2 — 5 — 16

790.00 — 17 — 9' — 791.26 — 104+50 — 791.21 — 6' — 4 — 7 — 20

785.00 — 22 — 8' — 1 — 789.08 — 104+00 — 788.93 — 7' — 2 — 9 — 7

785.00 — 16 — 9' — 1 — 786.90 — 103+50 — 786.45 — 6' — 3 — 4 — 17 — 5

780.00 — 10 — 9' — 1 — 784.72 — 103+00 — 784.66 — 6' — 3 — 11 — 14

780.00 — 11 — 9' — 1 — 782.61 — 102+50 — 782.25 — 6' — 2 — 8 — 30

780.00 — 17 — 10' — 1 — 780.96 — 102+00 — 780.70 — 6' — 2 — 12 — 28

775.00 — 10 — 10' — 779.38 — 101+50 — 779.18 — 5' — 3 — 12 — 21

End Area Cut	End Area Fill
19	25
24	24
10	31
9	21
18	21
33	19
31	29
24	22

Sta 97+00 to 105+00

Sta 109+75 discontinue widening & resurfacing, resume new pavement.

FEDERAL ROAD DISTRICT NO.	STATE	FEDERAL AID PROJECT NO.	FISCAL YEAR
10	OHIO	W.P.H.1373-C	1934

U. S. PUBLIC WORKS PROJECT NO.

I.C.H. No. 396 Sec "B"
VINTON COUNTY.

End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
3	41		
		7	82
5	47		
		7	104
2	65		
		8	96
7	39		
		15	67
9	33		
		16	65
8	37		
		27	57
21	25		
		47	39
30	17		
		52	39
26	25		
		42	46
249	0		
		43	11
20	30		
		5	54
10	58		
		18	44
20	20		
		26	22
19	26		

800.00 — 29 — 2 — 1 — 804.40 — 109+50 — 804.19 — 12

800.00 — 40 — 3 — 1 — 803.32 — 109+00 — 803.00 — 1 — 7

800.00 — 57 — 2 — 802.47 — 108+50 — 802.25 — 8

800.00 — 34 — 2 — 1 — 801.86 — 108+00 — 801.64 — 5 — 4

800.00 — 30 — 2 — 2 — 801.20 — 107+50 — 801.06 — 3 — 5

800.00 — 30 — 2 — 1 — 800.22 — 107+00 — 800.03 — 7 — 5

795.00 — 22 — 2 — 1 — 799.11 — 106+50 — 798.86 — 3 — 18

795.00 — 14 — 1 — 2 — 797.54 — 106+00 — 797.20 — 3 — 27

795.00 — 20 — 1 — 795.62 — 105+50 — 795.49 — 5 — 25

805.00 — 249 — 807.71 — 114+00 — 810.1 — 34

805.00 — 4 — 2 — 2 — 9 — 3 — 808.59 — 113+50 — 806.5

805.00 — 29 — 809.11 — 113+00 — 807.2 — 19

805.00 — 54 — 809.28 — 112+50 — 807.4 — 5

805.00 — 58 — 809.09 — 112+00 — 807.2 — 10

805.00 — 44 — 808.54 — 111+50 — 807.0 — 18

805.00 — 10 — 807.64 — 6 — 111+00 — 807.0 — 10 — 14

805.00 — 3 — 14 — 13 — 806.56 — 110+50 — 806.21 — 8 — 10

805.00 — 19 — 18 — 805.48 — 110+00 — 805.36 — 7 — 17

Sta. 105+50 to 114+00

U. S. PUBLIC WORKS
PROJECT NO.

FEDERAL ROAD DISTRICT NO	STATE	FEDERAL AID PROJECT NO	FISCAL YEAR
10	OHIO	W.P.H. 573-C	1934

I.C.H. No. 396 Sec "B"
VINTON COUNTY

	Sta	115+28.40	116+00	116+50	117+00	117+25	117+50	118+00	118+50	119+00
Ent. Abs. Cy. Yds.	Cut	0	470	1088	618	0	0	0	0	0
	Fill	670	0	0	0	0	0	0	0	0
	Cut	475	578	0	0	0	0	0	0	0
	Fill	0	0	0	0	0	0	0	0	0
	Cut	0	597	0	0	0	0	0	0	0
	Fill	0	0	0	0	0	0	0	0	0
	Cut	420	0	0	0	0	0	0	0	0
	Fill	0	0	0	0	0	0	0	0	0
	Cut	413	0	0	0	0	0	0	0	0
	Fill	0	0	0	0	0	0	0	0	0
	Cut	479	0	0	0	0	0	0	0	0
	Fill	0	0	0	0	0	0	0	0	0
	Cut	462	0	0	0	0	0	0	0	0
	Fill	0	0	0	0	0	0	0	0	0
	Cut	437	0	0	0	0	0	0	0	0
	Fill	0	0	0	0	0	0	0	0	0
	Cut	207	0	0	0	0	0	0	0	0
	Fill	0	0	0	0	0	0	0	0	0
	Cut	0	162	0	0	0	0	0	0	0
	Fill	0	0	0	0	0	0	0	0	0
	Cut	0	290	0	0	0	0	0	0	0
	Fill	0	0	0	0	0	0	0	0	0

Sta 115+28.40

597 | 578 | 475 | 420 | 413 | 479 | 462 | 437 | 207 | 162 | 290

804.80	802.95	800.65	798.00	795.16	793.73	792.38	789.50	786.67	783.83
115+00	115+50	116+00	116+50	117+00	117+25	117+50	118+00	118+50	119+00
812.6	804.5	809.7	803.8	801.2	802.8	800.0	792.4	781.4	776.6

805.00 | 800.00 | 800.00 | 800.00 | 800.00 | 790.00 | 780.00 | 775.00

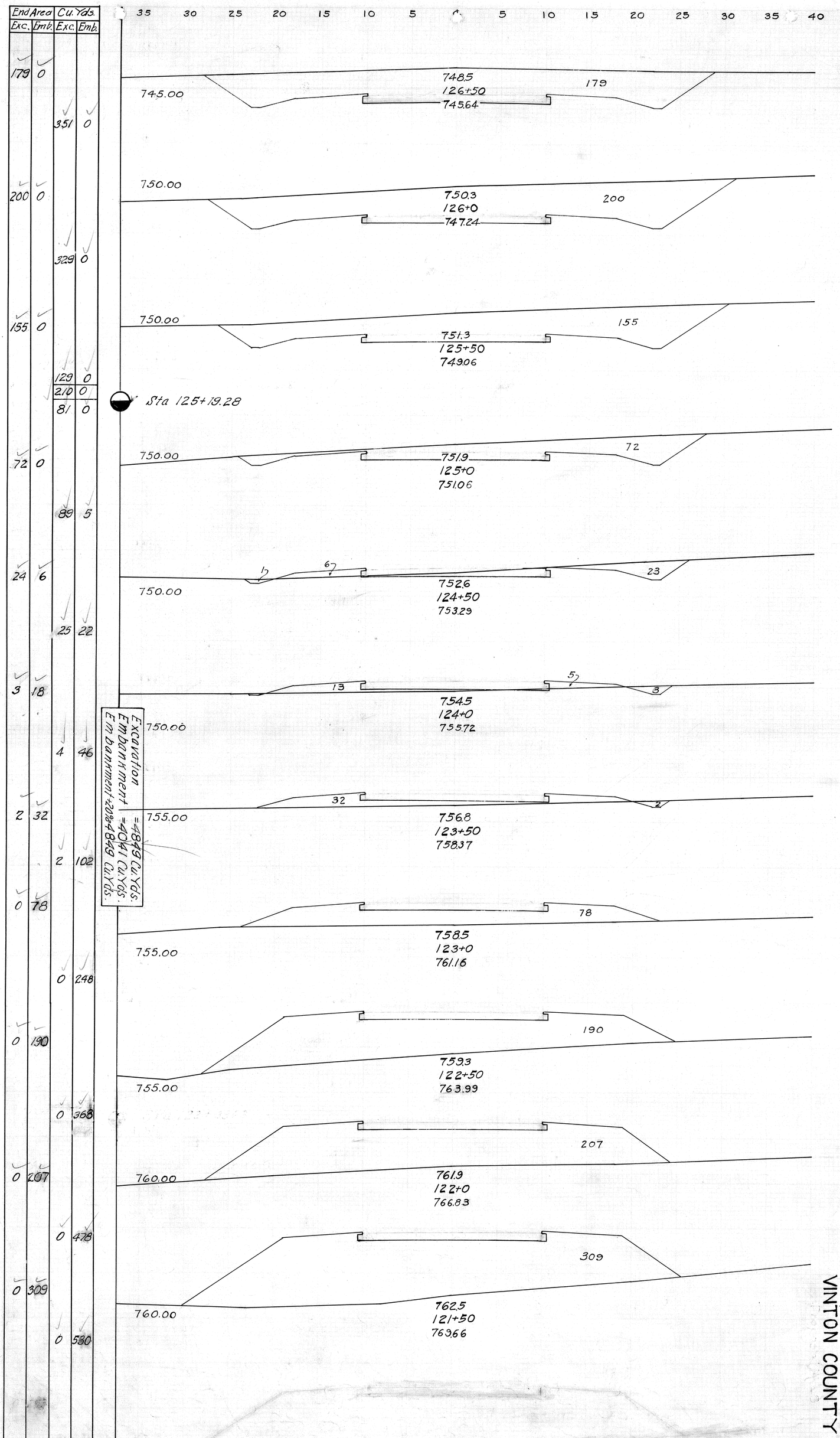
10 20 30 40 ℄ 10 20 30 40

U. S. PUBLIC WORKS
PROJECT NO.

FEDERAL ROAD DISTRICT NO	STATE	FEDERAL AID PROJECT NO	FISCAL YEAR
10	OHIO	W.P.H.S.73-C	1934

I.C.H. No. 396 Sec. 'B'
VINTON COUNTY

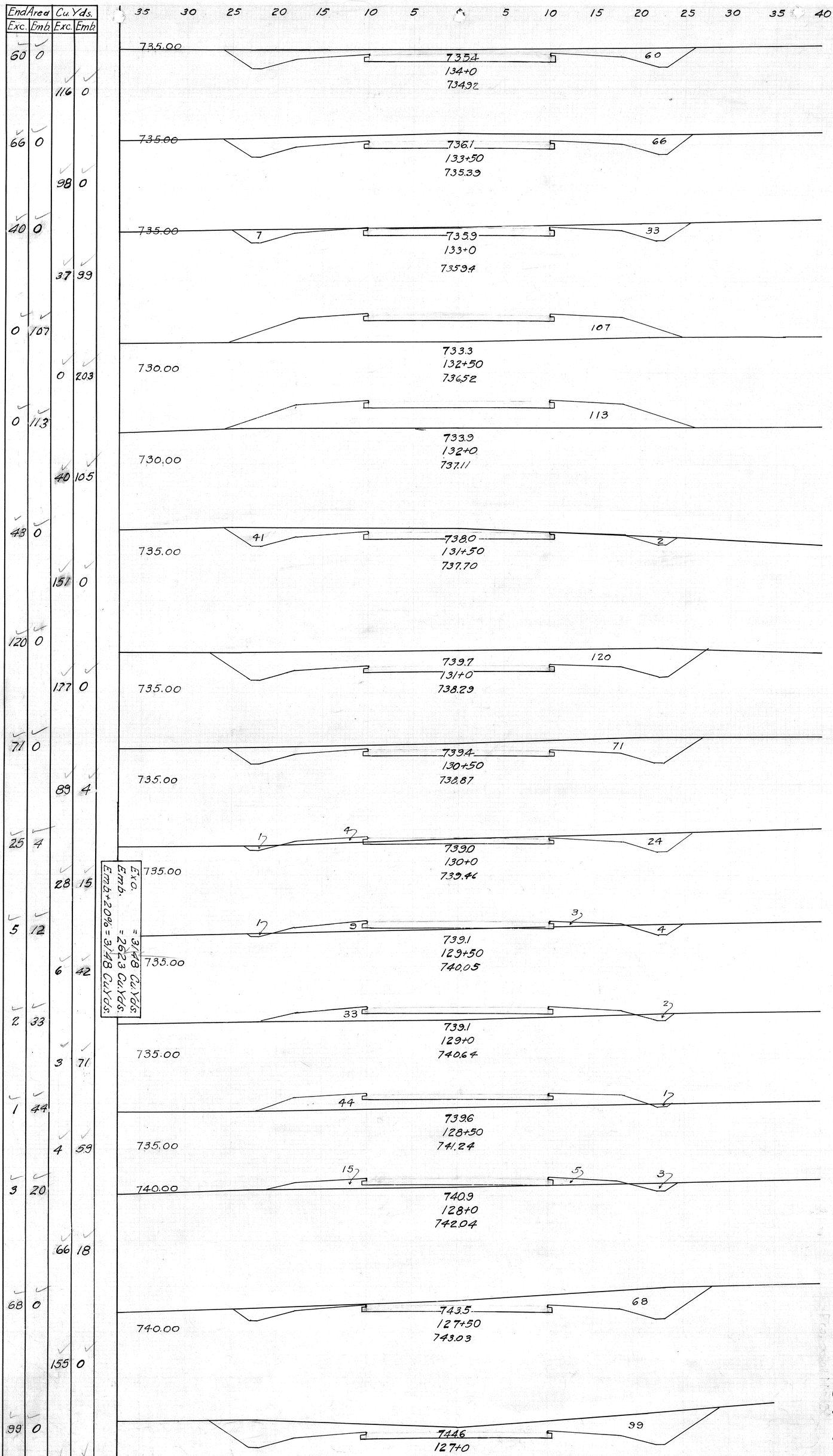
End of Area	Cu. Yds.		385		282		439	567
	Cut	0		0		0		0
	Fill		263		153		152	322
	Cut	0		0		0		0
	Fill							



U. S. PUBLIC WORKS
PROJECT NO.

Fed. Aid District	STATE	Fed. Aid Project	Fiscal Year
10	OHIO	M.R.-S.T.P.-C	1937

SH. (U.S.H.) 396 SECT. 7
VINTON COUNTY

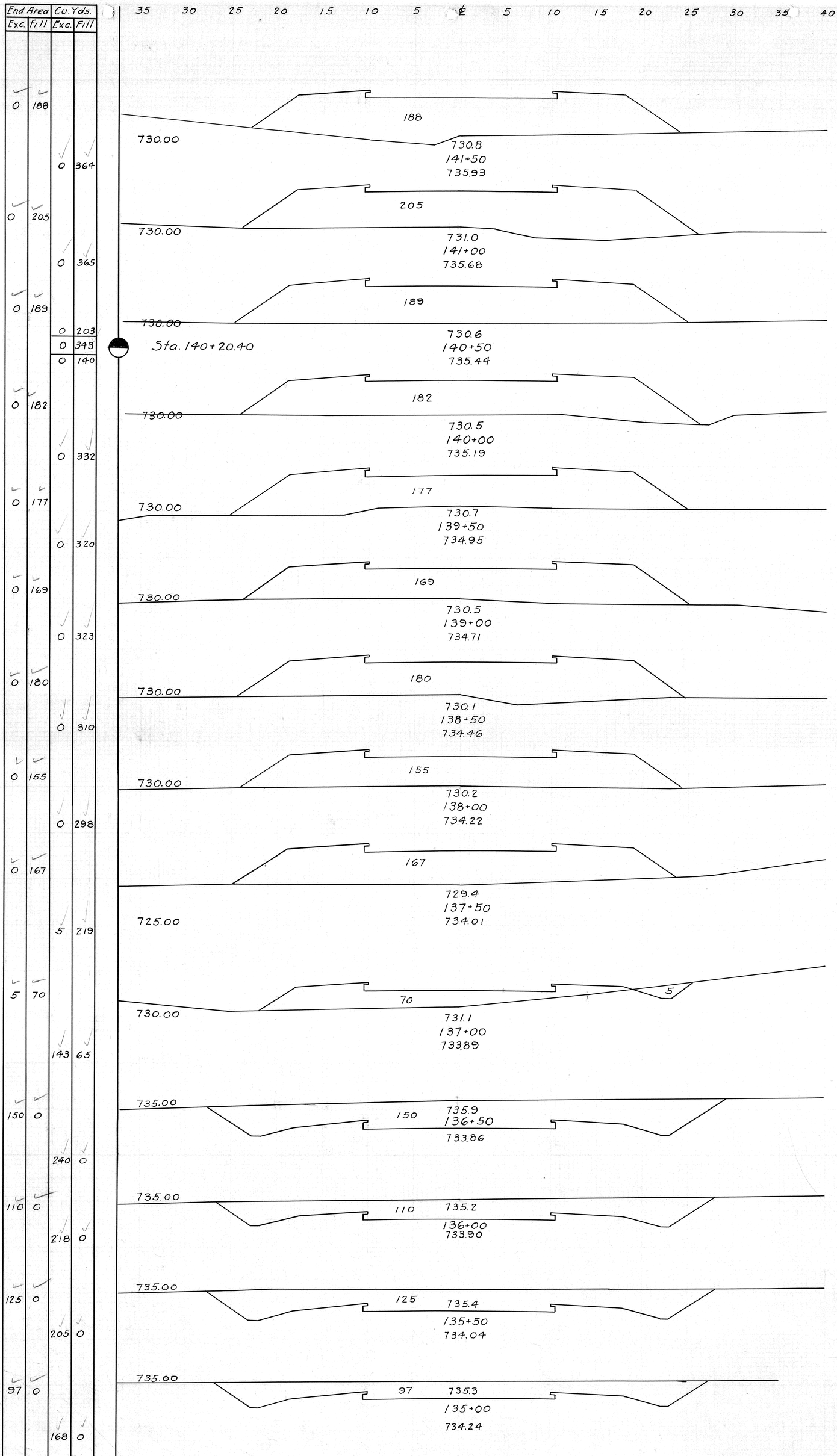


U. S. PUBLIC WORKS
PROJECT NO.

Fed. Aid District	STATE	Fed. Aid Project	Fiscal Year
10	OHIO	MRH-573-C	1932

S.H.(I.C.H.) 396 SEC. "B"

VINTON COUNTY

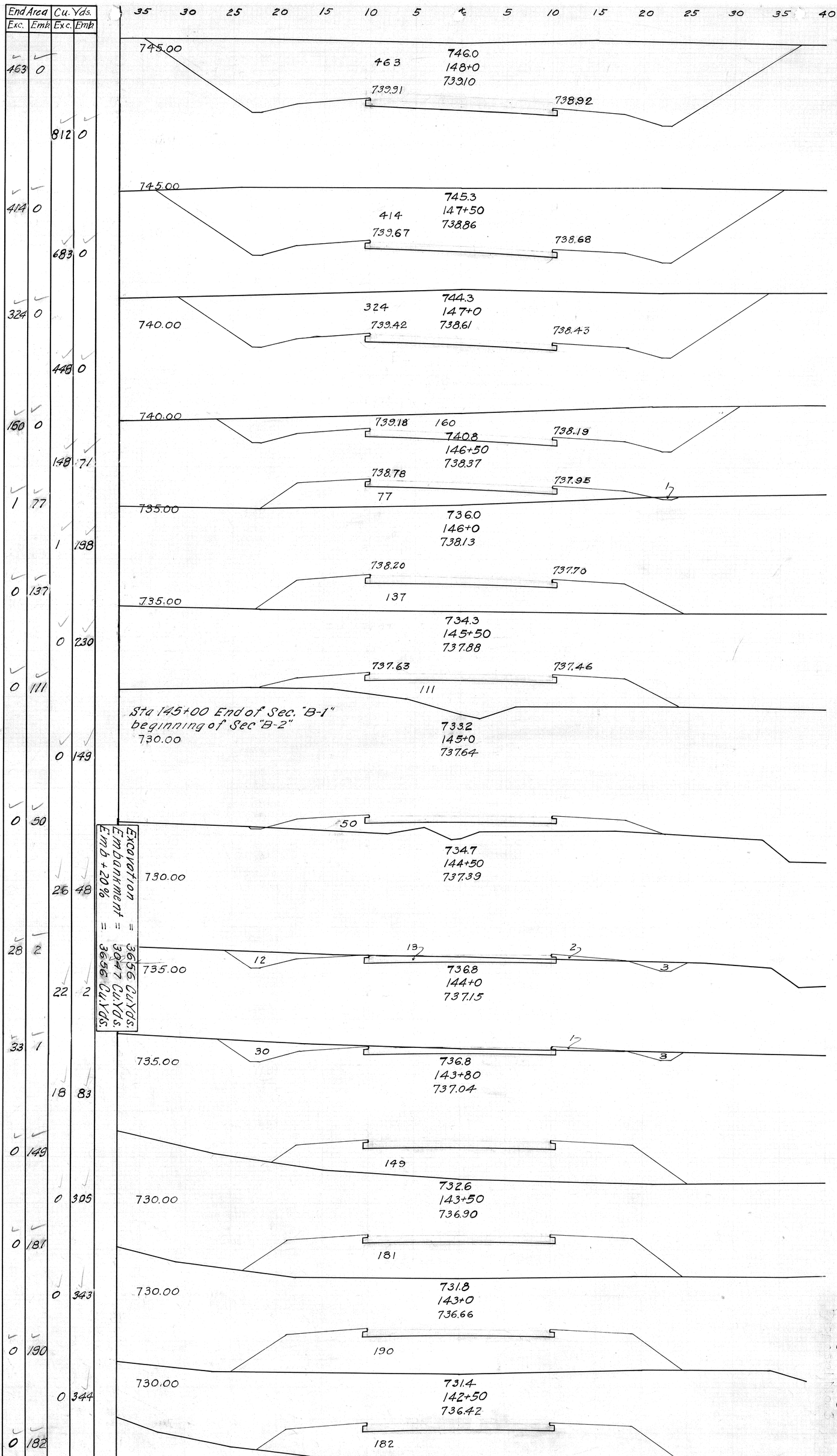


U. S. PUBLIC WORKS
PROJECT NO.

Fed. Aid District	STATE	Fed. Aid Project	Fisc. Year
10	OHIO	NRH-573-C	1937

S.H. (U.S.H.) 396 SEC. "B"

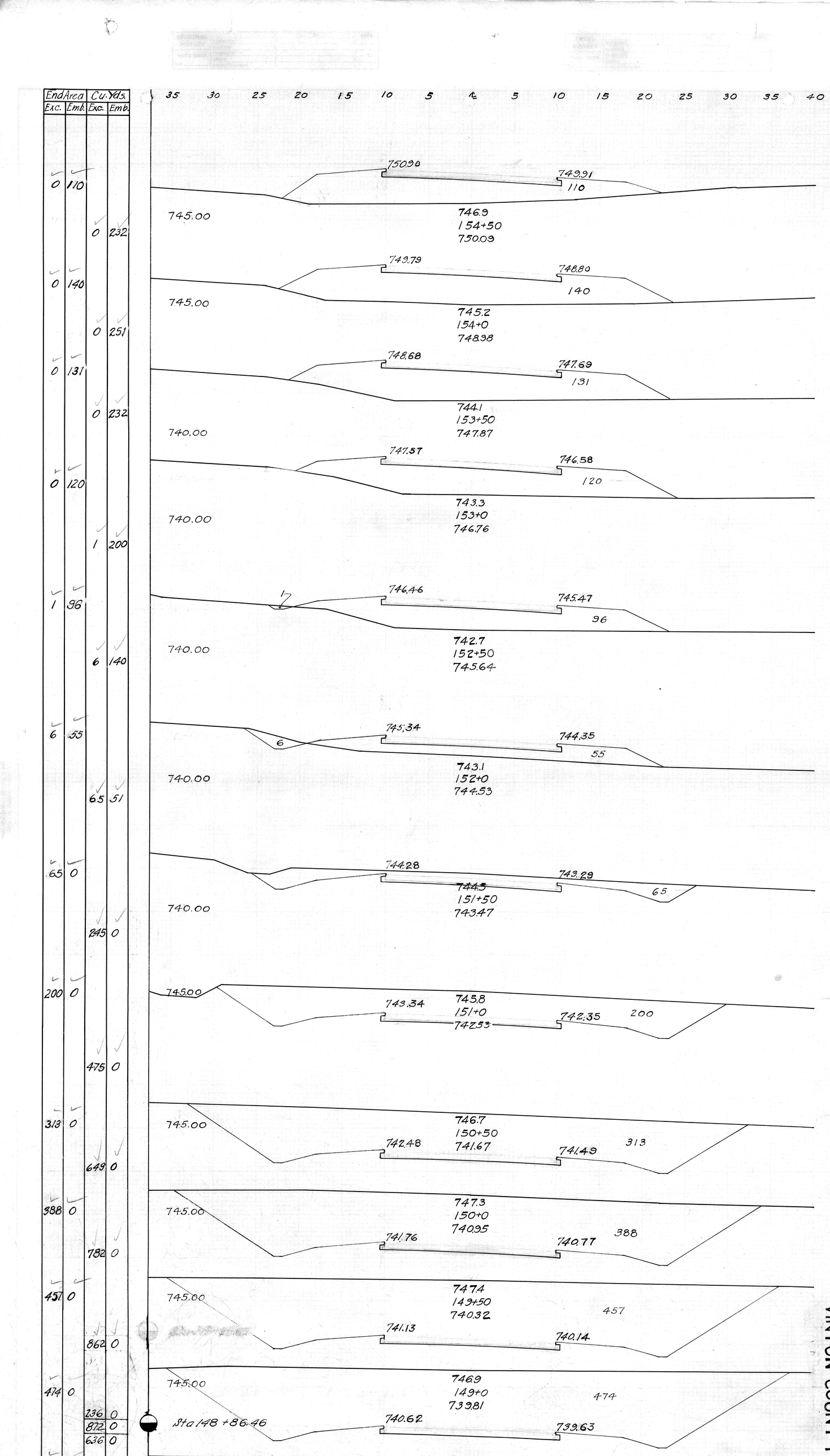
VINTON COUNTY



U.S. PUBLIC WORKS
PROJECT NO.

Fed. Aid District	STATE	Fed. Aid Project	Fiscal Year
10	OHIO	(RRH-ST)-2-C	19

S.H. (C.H.) 396 SEC. B-1
VINTON COUNTY



U. S. PUBLIC WORKS
PROJECT NO.

Fed. Aid District	STATE	Fed Aid Project	Fiscal Year
10	OHIO	[illegible]	19[illegible]

S.H. (I.C.H.) 396 Sec. "B"

VINTON COUNTY

U. S. PUBLIC WORKS
PROJECT NO.

Fed. Aid District	STATE	Fed. Aid Project	Fiscal Year
10	OHIO	M.R.H.513-C	1934

S.H. (I.C.H.) 396 Sec. "B-2"

VINTON COUNTY

End Area	Cu. Yds.	
Cut	Fill	Cut Fill
4	27	
		4 109
0	91	
		0 213
0	139	
		0 255
0	136	
		10 232
11	115	
		20 170
11	69	
		33 155
25	98	
		52 180
31	97	
		52 159
25	70	
		39 123
17	63	
		18 104
2	49	

Exc.	=	3557 Cu.Yds.
Emb.	=	2964 Cu.Yds.
Emb+20%	=	3557 Cu.Yds.

FINAL SURVEY
SURVEYED
PLOTTED
TRACED
NOTE BOOK
AREAS
AREAS CHECKED
ORIGINAL SURVEY
SURVEYED
PLOTTED
TRACED
NOTE BOOK
AREAS
AREAS CHECKED

Fed Aid District	STATE	Fed Aid Project	Fis Ye
10	OHIO	WRH-573C	19

U. S. PUBLIC WORKS
PROJECT NO.

S.H. (I.C.H.) 396 Sec. B-2"
VINTON COUNT

End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
		4	42
2	24		
		4	44
2	24		
		4	42
2	21		
		5	36
3	18		
		6	38
3	23		
		6	35
4	15		
		6	29
2	16		
		6	26
5	12		
		15	22
11	12		
		8	21
		14	36
		6	15

755.00
757.78
164+50
757.85

755.00
758.05
164+00
758.18

755.00
757.80
163+50
758.01

755.00
757.79
163+00
758.02

755.00
758.07
162+50
758.28

755.00
758.23
162+00
758.54

755.00
758.69
161+50
758.80

755.00
758.75
161+00
759.06

760.00
758.92
160+50
759.30

Sta 160+50 discontinue new pavement resume widening & resurfacing.

Sta 160+11.80

750.00
752.33
169+50
752.50

750.00
752.99
169+00
753.15

750.00
753.69
168+50
753.85

750.00
754.36
168+00
755.55

750.00
754.99
167+50
755.25

755.00
755.76
167+00
755.93

755.00
756.26
166+50
756.43

755.00
756.66
166+00
756.75

755.00
756.88
165+50
757.06

755.00
757.33
165+00
757.45

Exc.	= 218 Cu.Yds.
Emb.	= 557 Cu.Yds.
Emb.+20%	= 669 Cu.Yds.
Borrow	= 451 Cu.Yds.

Sta. 160+50 to 169+50

Fed.Aid District	STATE	Fed.Aid Project	Fiscal Year
10	OHIO	W.A.H.5730	1934

U. S. PUBLIC WORKS
PROJECT NO.

S.H. (IC.H.) 396 Sec. "B-2"
VINTON COUNTY

End Area Cut	End Area Fill	Cu. Yds Cut	Cu. Yds Fill	
6	21			
		10	41	745.00
5	23			
		21	37	745.00
18	17			
		28	30	745.00
12	16			
		16	30	745.00
5	16			
		7	33	745.00
3	20			
		4	43	745.00
1	26			
		4	50	745.00
3	28			
		5	44	745.00
2	20			
		5	32	745.00
3	14			
		6	19	

End Area Cut	End Area Fill
8	15
8	19
4	12
20	6
6	16
5	22
2	24
3	19
1	22
3	20

Exc = 220 Cu.Yds.
Emb = 687 Cu.Yds.
Emb+20% = 836 Cu.Yds.
Borrow = 676 Cu.Yds.

750.00 — 750.85 — 174+50 — 750.98
750.00 — 750.99 — 174+00 — 751.44
750.00 — 751.46 — 173+50 — 751.63
750.00 — 751.30 — 173+00 — 751.55
750 — 751.30 — 172+50 — 751.43
750.00 — 751.12 — 172+00 — 751.33
750.00 — 751.23 — 171+50 — 751.37
750.00 — 751.37 — 171+00 — 751.55
750.00 — 751.57 — 170+50 — 751.85
750.00 — 751.94 — 170+00 — 752.15

Sta 170+00

745.00 — 748.45 — 179+50 — 748.59
745.00 — 749.06 — 179+00 — 749.28
745.00 — 749.76 — 178+50 — 749.89
745.00 — 750.04 — 178+00 — 750.16
745.00 — 749.89 — 177+50 — 750.01
745.00 — 749.33 — 177+00 — 749.56
745.00 — 749.29 — 176+50 — 749.53
745.00 — 749.60 — 176+00 — 749.72
745.00 — 749.90 — 175+50 — 750.06
750.00 — 750.34 — 175+00 — 750.48

Sta. 170+00 to 179+50

Fed.Aid District	STATE	Fed.Aid Project	Fiscal Year
10	OHIO	N.H.-457(3)	1934

U. S. PUBLIC WORKS
PROJECT NO.

S.H. ~~F.H.~~ 136 Sec. "B-2"

VINTON COUNTY

END AREA CUT	END AREA FILL	CU. YDS. CUT	CU. YDS. FILL
18	20		
		.29	30
13	13		
		18	27
6	16		
		7	31
2	17		
		6	28
4	13		
		10	24
7	13		
		11	22
5	11		
		8	25
4	16		
		6	35
3	22		
		6	33
4	14		
		11	27

744.22 184+50 744.31
744.35 184+00 744.95
744.38 183+50 744.76
744.92 183+00 745.09
745.12 182+50 745.27
745.29 182+00 745.50
745.87 181+50 746.05
746.33 181+00 746.52
746.69 180+50 746.92
747.48 180+00 747.79

Sta 180+00

746.48 189+00 746.75
746.43 188+50 746.51
745.91 188+00 746.09
745.32 187+50 745.63
744.82 187+00 745.17

Sta 186+50

744.48 186+50 744.71
744.06 186+00 744.29
743.95 185+50 744.15
743.98 185+00 744.17

Sta. 180+00 to 189+00

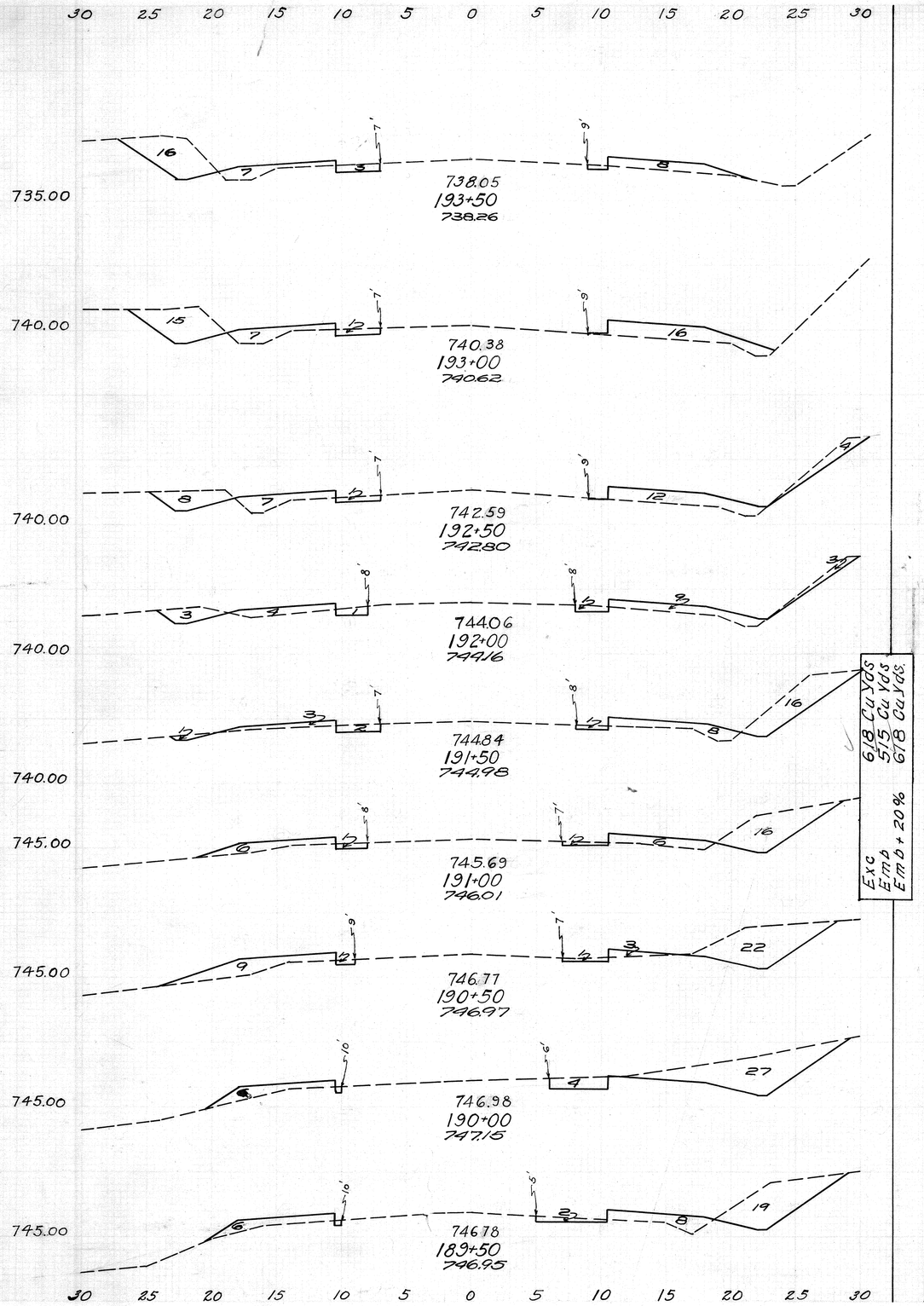
Exc = 172 Cu.Yds.
Emb = 402 Cu.Yds.
Emb+20% = 482 Cu.Yds.
Borrow = 310 Cu.Yds.

Fed.Aid District	STATE	Fed.Aid Project	Fiscal Year
10	OHIO	W.P.H.5730	1934

U. S. PUBLIC WORKS PROJECT NO.

S.H. (I.C.H.) 396 Sec "B-2"

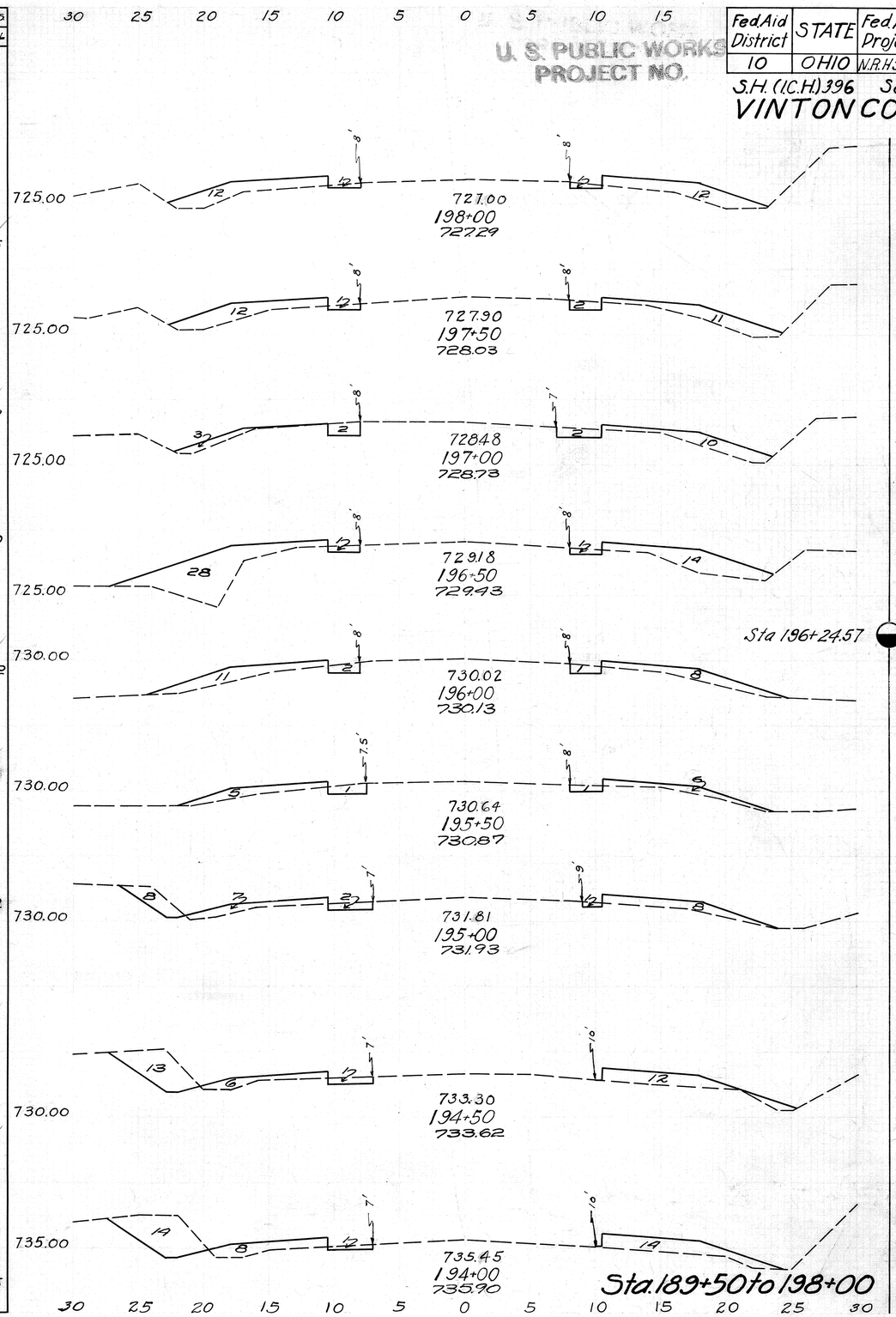
VINTON COUNTY



End Area Cut	End Area Fill	Cu Yds Cut	Cu Yds Fill
19	15		
		32	35
16	23		
		27	39
13	19		
		19	30
8	13		
		26	22
20	11		
		35	21
18	12		
		39	22
24	12		
		51	17
31	6		
		48	18
21	14		
		43	25

618 Cu Yds
515 Cu Yds
618 Cu Yds

Exc
Emb
Emb + 20%



Sta 196+24.57

End Area Cut	End Area Fill
2	24
3	23
4	13
2	42
3	19
2	11
11	15
14	18
15	22

Sta. 189+50 to 198+00

U. S. PUBLIC WORKS
PROJECT NO.

FedAid District	STATE	FedAid Project	Fiscal Year
10	OHIO	N.H.S.573(C)	1934

S.H. (I.C.H.) 396 Sec: "B-2"
VINTON COUNTY

VOID

Sta 202+18 End F.A.P. N.E.H. 573-C

Sta 202+18 End section "B-2"
beginning section "D"

Sta 202+18

Sta. 208+00

Sta. 198+50 to 208+00

	End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
	9	26		
			✓ 11	✓ 70
	3	50		
			3	47
			5	74
			2	27
	2	30		
			✓ 4	✓ 58
	2	32		
			✓ 4	✓ 49
	2	21		
			✓ 6	✓ 36
	4	18		
			✓ 22	✓ 28
	20	13		
			✓ 45	✓ 27
	29	16		
			✓ 51	✓ 32
	26	19		
			✓ 37	✓ 39
	14	23		
			✓ 15	✓ 44

Exc. Emb. 2050 Cu. Yds.
Emb. + 20% 497 Cu. Yds.
Borrow 392 Cu. Yds.

	End Area Cut	End Area Fill
	2	24
	3	14
	4	14
	3	10
	2	12
	5	17
	2	20
	2	20
	2	31
	3	26

U. S. PUBLIC WORKS
PROJECT NO.

S.H. 396 SEC. "H"
VINTON COUNTY

FED AID DIST NO.	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	N-BRF-373-C	1934

Sta

| End Areas C u. Yds. | | |

U. S. PUBLIC WORKS
PROJECT NO.

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	N-S.H. 373-C	1934

S.H. 396 SEC. "H"
VINTON COUNTY

| | | |

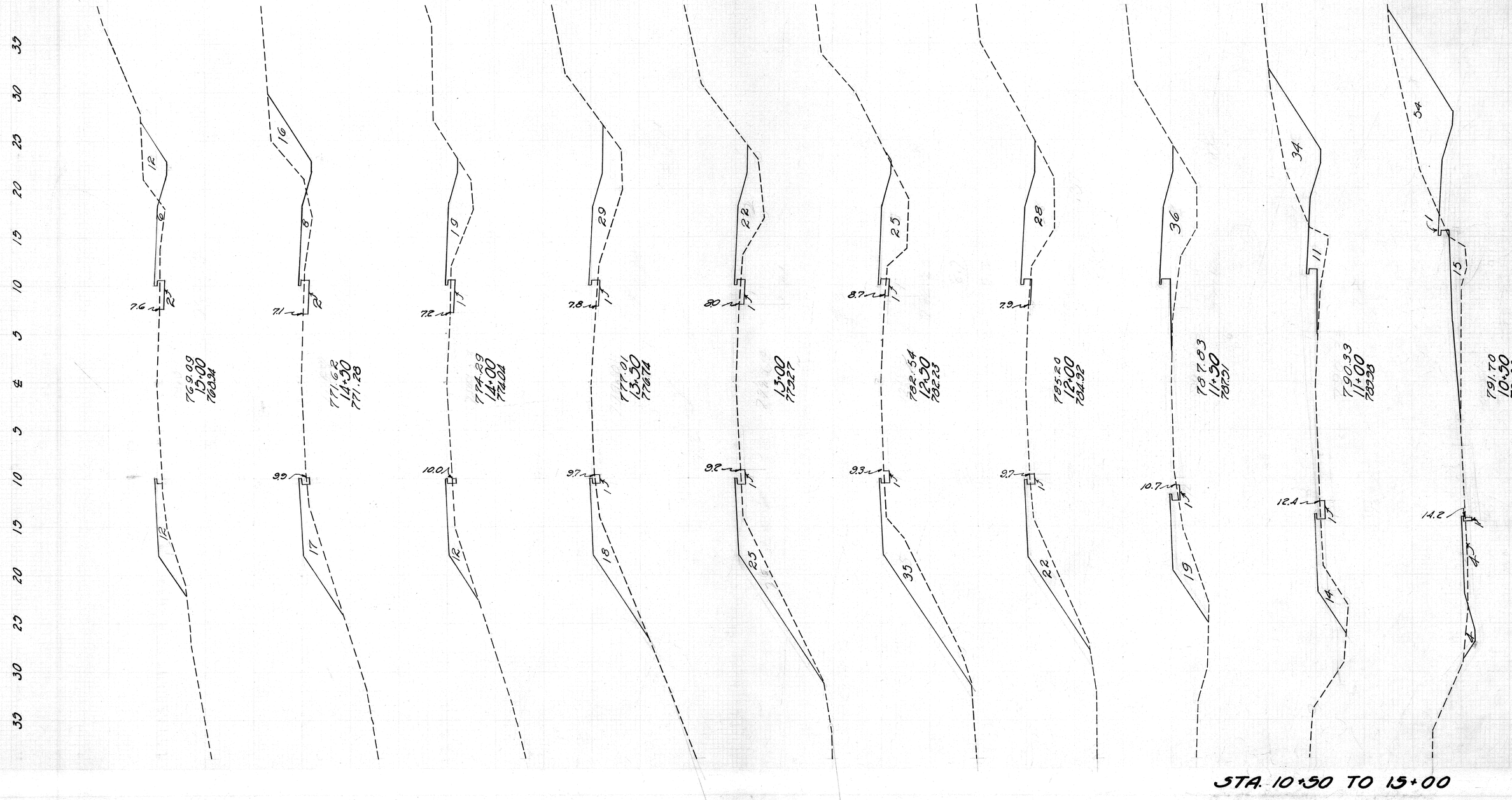
U. S. PUBLIC WORKS
PROJECT NO.

S.H. 396 SEC. "H"
VINTON COUNTY

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	N-R-T-S 373-C	1934

Exc.	1111	Cu. Yds.
Emb.	2549	Cu. Yds.
Emb. + 20%	3059	Cu. Yds.
Borrow	1948	Cu. Yds.

	14+00	13+00	12+00	11+00	10+00
End Area Cut	18	18	14	2	1
End Area Fill	14	33	31	47	47
Cu. Yds. Cut	30	10	3	4	4
Cu. Yds. Fill	41	59	72	94	99
	60	50	55	25	19
	2	1	1	35	39
	3	2	2	87	82
	102	97	74	41	14



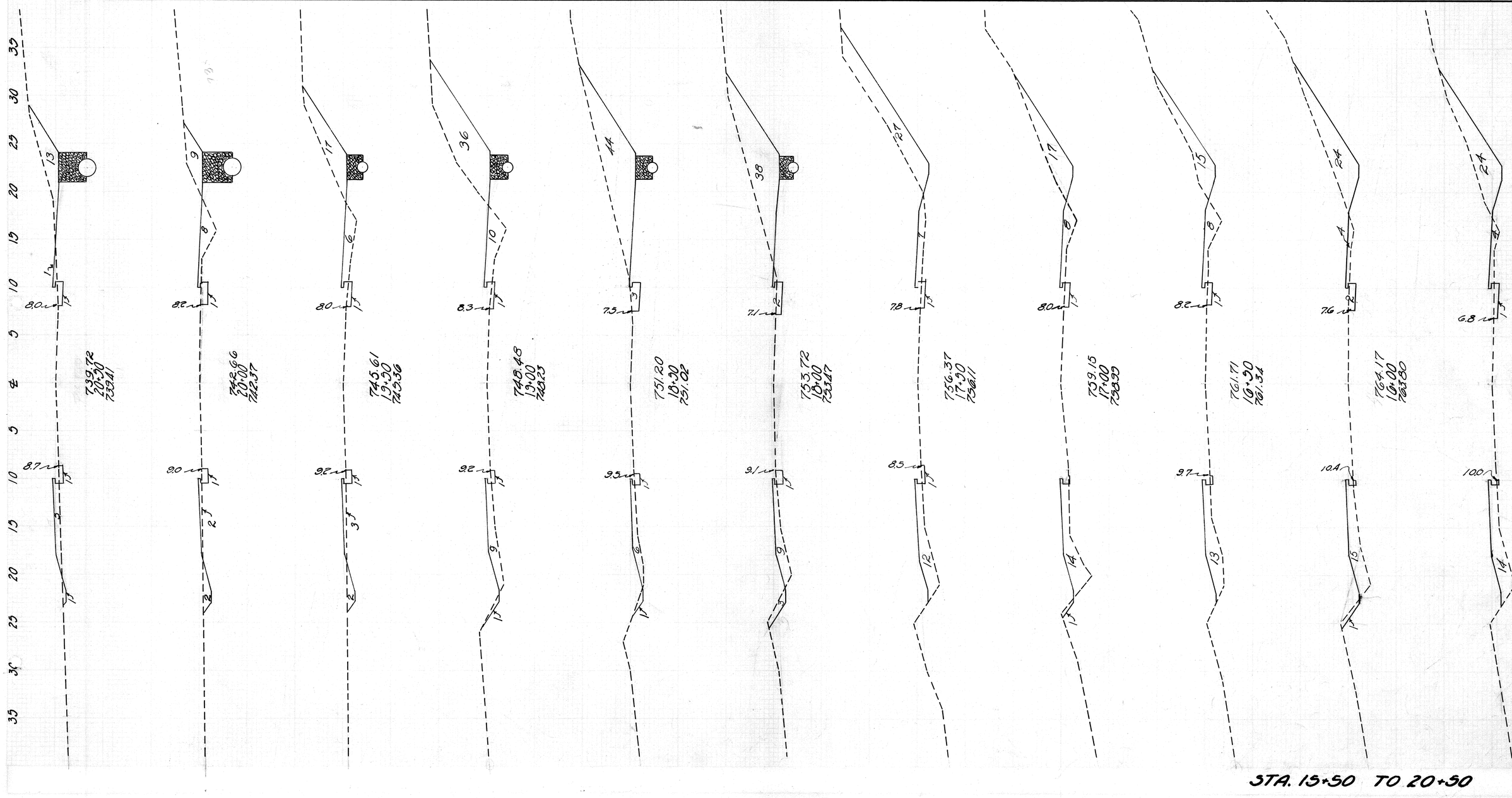
STA. 10+50 TO 15+00

U. S. PUBLIC WORKS
PROJECT NO.

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	N.P.H. 373-C	1934

S.H. 396 SEC. "H"
VINTON COUNTY

Sta.	End Area Cut	End Area Fill	Cu. Yds. Cut	Cu. Yds. Fill
13+50	16	6		
14	13	10	27	15
14+50	21	9	31	18
15	39	19	56	26
15+50	49	6	81	23
16	43	10	85	15
16+50	29	19	67	27
17	19	22	44	38
17+50	16	21	32	40
18	27	19	40	37
18+50	25	18	48	34



STA. 13+50 TO 20+50

U. S. PUBLIC WORKS
PROJECT NO.

S.H. 396 SEC. "H"
VINTON COUNTY

FED. AID DIST. NO.	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	N.R.H. 573-C	1934

	End Area		Cu. Yds.	
	Cut	Fill	Cut	Fill
	8.30		9.53	
	2.27		4.73	
	2.52		4.115	
	2.72		3.109	
	1.46		13.97	
	2.49		12.81	
	12.38		13.66	
	2.33		12.58	
	11.30		20.53	
	11.27		18.42	
	8.18		22.22	

STA 26+00 END F.A.P.-NRH 573-C

℄ 3

710.81
26+00
710.19

712.67
25+00
712.31

715.32
23+00
713.57

717.97
24+30
717.64

720.68
24+00
720.38

723.43
23+30
723.22

726.24
23+00
726.00

728.99
22+30
728.82

731.60
22+00
731.31

734.12
21+30
733.93

736.90
21+00
734.00

STA. 21+00 TO 26+00

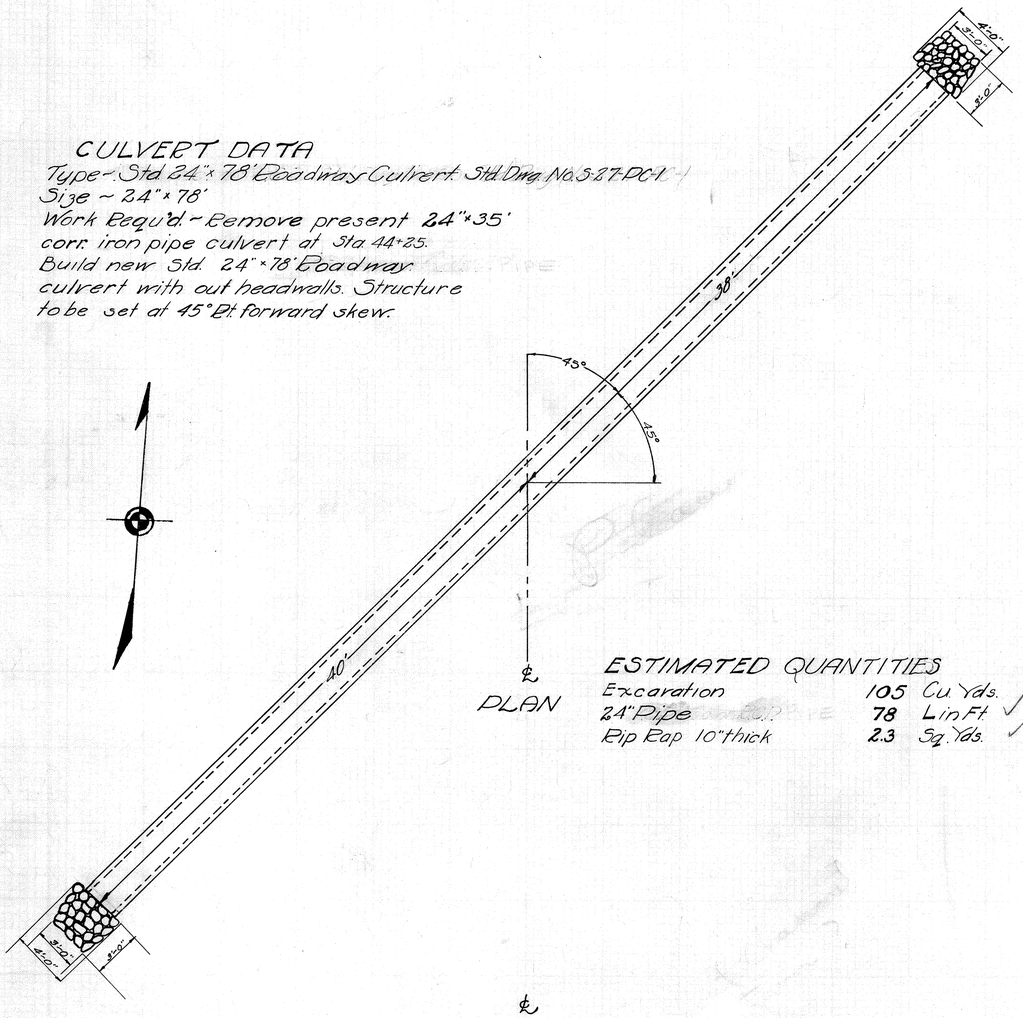
U. S. PUBLIC WORKS
PROJECT NO.

Fed. Aid District	STATE	Fed. Aid Project	Fisc Yea
10	OHIO	NRH-573-C	193

S.H (I.C.H.) 396 Sec. "B"
VINTON COUN

Station 43+85.5
Drainage Structure 2-C

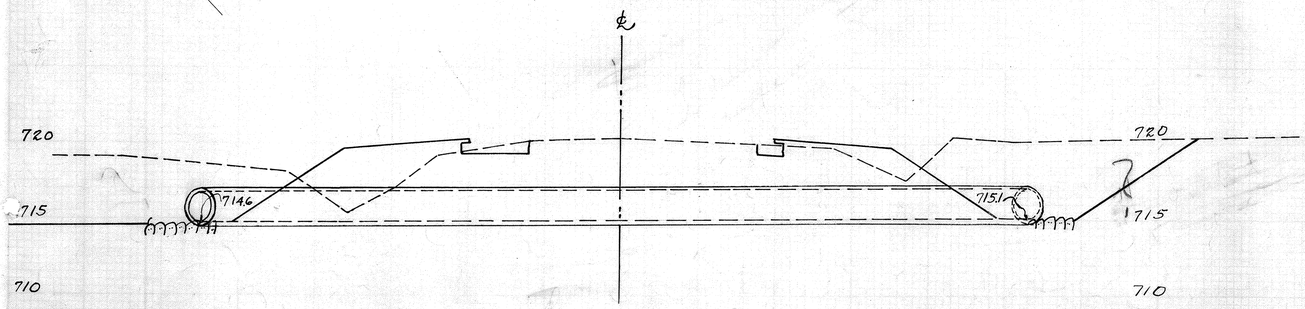
CULVERT DATA
Type - Std. 24" x 78' Roadway Culvert. Std. Drwg. No. S-27-PC-1
Size - 24" x 78'
Work Requ'd. - Remove present 24" x 35' corr. iron pipe culvert at Sta 44+25. Build new Std. 24" x 78' Roadway culvert with out headwalls. Structure to be set at 45° Rt. forward skew.



℄
PLAN

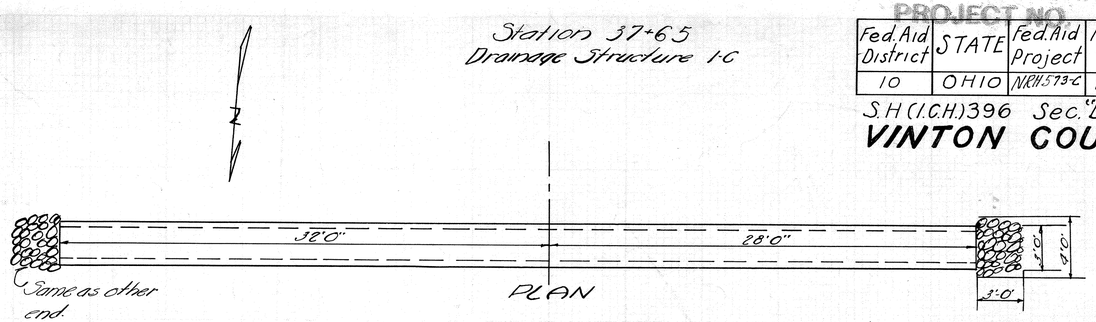
ESTIMATED QUANTITIES

Excavation	105	Cu. Yds.
24" Pipe	78	Lin Ft.
Rip Rap 10" thick	2.3	Sq. Yds.

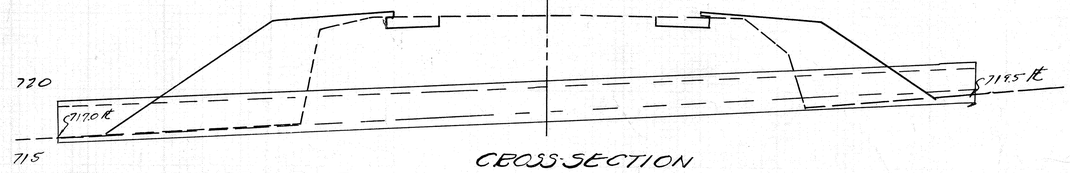


CROSS-SECTION

Station 37+65
Drainage Structure 1-C



Same as other end.
PLAN



CROSS-SECTION

CULVERT DATA
Type - Std Roadway Culv. Std. Drwg. No. S-27-PC1
Size - 24" x 60'
Work Requ'd - Remove present 28" x 46" corr. iron pipe culv. Build Std. Pipe culv. without headwalls.

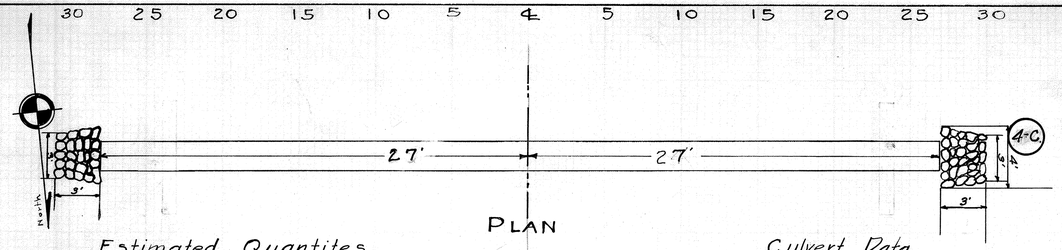
ESTIMATED QUANTITIES

Excavation	40 Cu
24" Pipe K.S.P. @ 1 enc.	60 Lin
Rip Rap 10" thick	2.3 Sq

U. S. PUBLIC WORKS
PROJECT NO.

Fed Aid District	STATE	Fed. Aid Project	Fiscal Year
10	OHIO	NRH 573-C	1934

S.H.(I.C.H.) 396 SEC. "B"
VINTON COUNTY

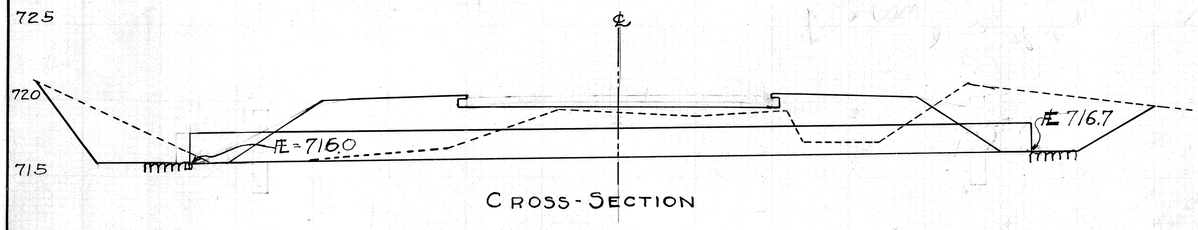


PLAN

Estimated Quantites

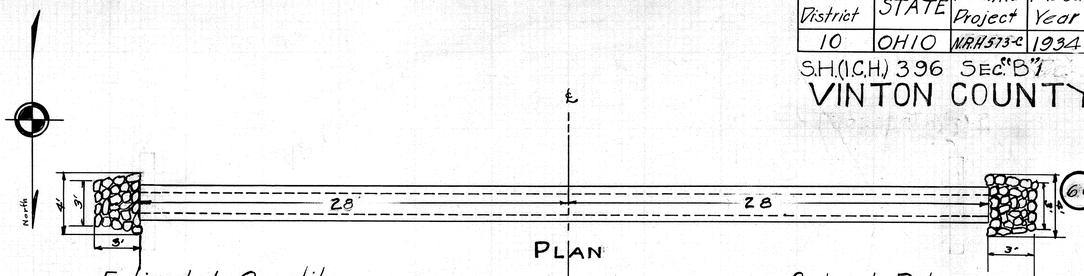
Exc.	31 Cu. Yds.
24" Cast Iron Pipe	54 Lin. Ft.
Hand Laid Rip Rap 10" Thick	2.3 Sq. Yds.

Culvert Data
Type : Std Cast Iron Pipe Culvert Dr. # 3-27-PC-1
Size : 24" × 54'
Work Required : Build New Std. Cast Iron Pipe Culvert.



CROSS-SECTION

STATION 58+11

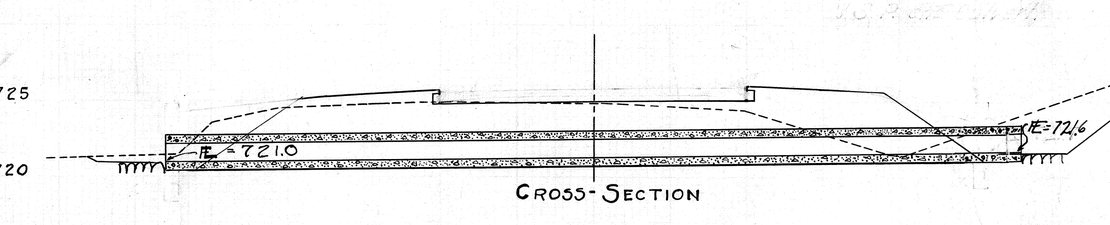


PLAN

Estimated Quantites

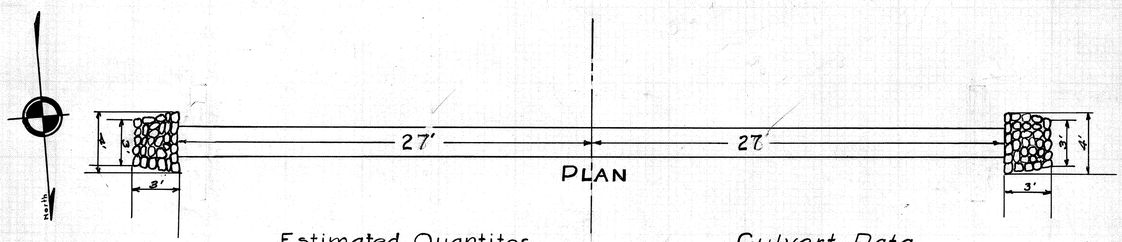
Exc.	40 Cu. Yds.
15" Pipe K.S.P. (a) enc.	56 Lin. Ft.
Hand Laid Rip Rap 10" Thick	2.3 Sq. Yds.

Culvert Data
Type : Std. 15" × 56' Boodway Culv
Std. Dwg. No. 3-27-PC-1
Size : 15" × 56'
Work Required : Build new Std. Bo
culvert.



CROSS-SECTION

STATION 64+39

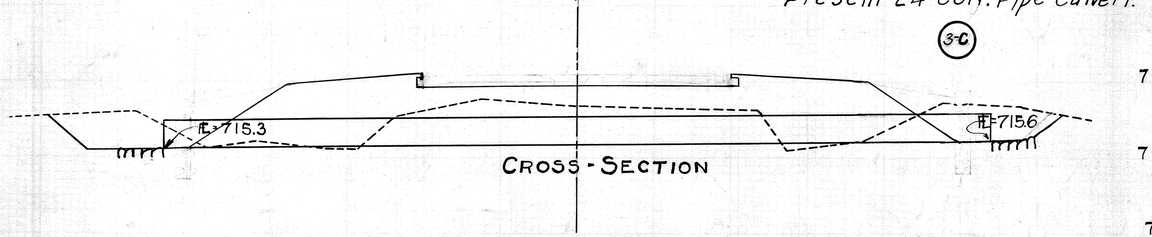


PLAN

Estimated Quantites

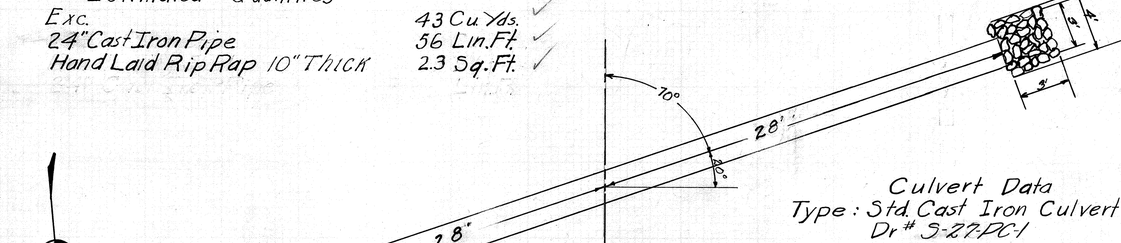
Exc.	24 Cu. Yds.
24" Cast Iron Pipe	54 Lin. Ft.
Hand Laid Rip Rap 10" Thick	2.3 Sq. Yds.

Culvert Data
Type: Standard Cast Iron Pipe Culvert Dr. # 3-27-PC-1
Size : 24" × 54'
Work Required: Build New Std. Cast Iron Pipe Culvert. Remove Present 24" Corr. Pipe Culvert.



CROSS-SECTION

STATION 54+21

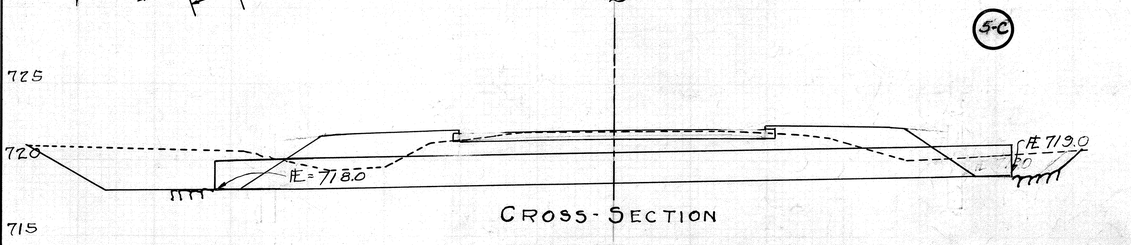


PLAN

Estimated Quantites

Exc.	43 Cu Yds.
24" Cast Iron Pipe	56 Lin. Ft.
Hand Laid Rip Rap 10" Thick	2.3 Sq. Ft.

Culvert Data
Type : Std. Cast Iron Culvert
Dr # 3-27-PC-1
Size : 24" × 56'
Work Required : Build New
Cast Iron Pipe Culvert
With 20° Right Forward Sk



CROSS-SECTION

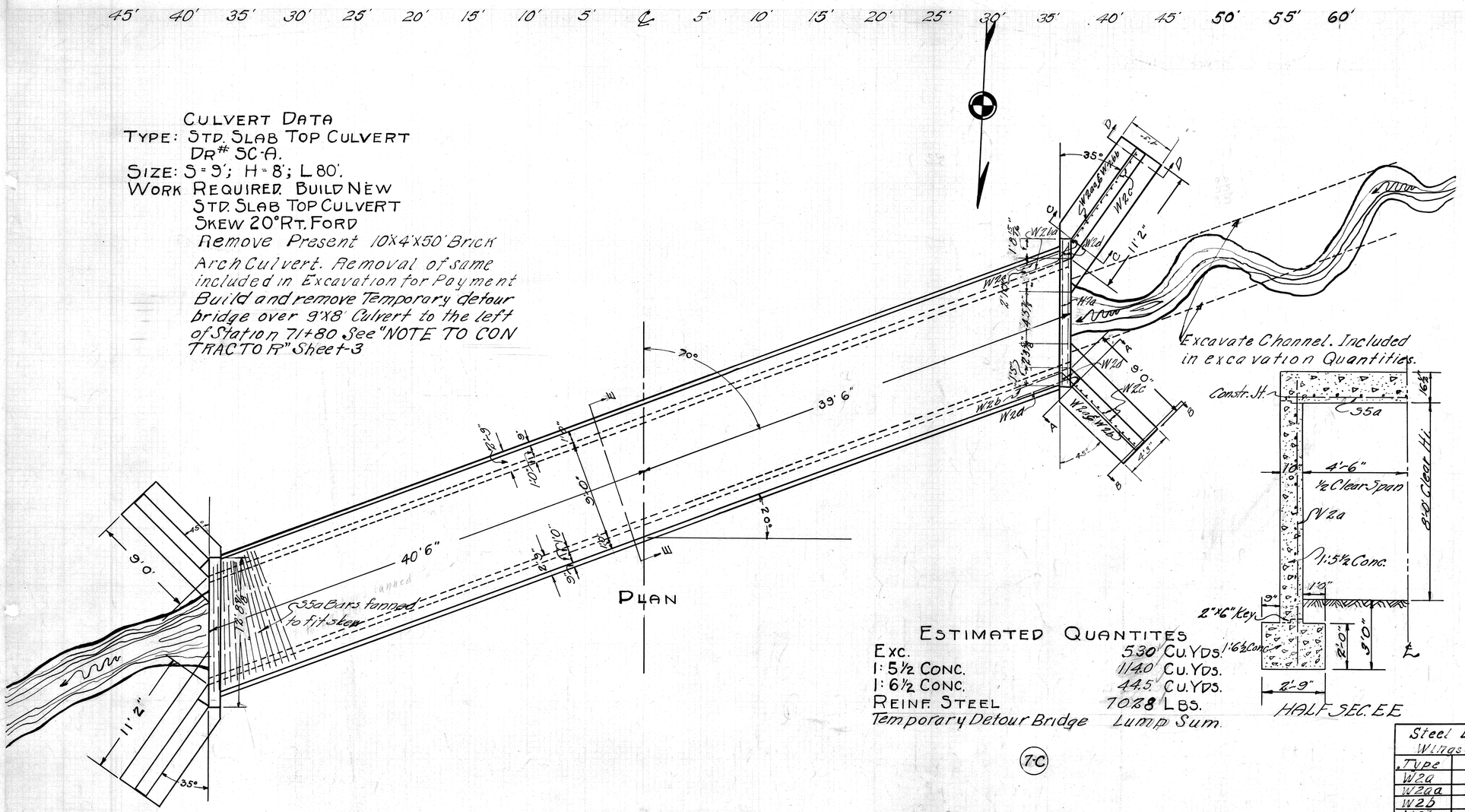
STATION 61+80

U. S. PUBLIC WORKS
PROJECT NO.

Fed. Road District	STATE	Fed. Aid Project	Fiscal Year
10	OHIO	NRH573-C	1934

S.H. (I.C.H.) 396 Sec. "B"
VINTON COUNTY

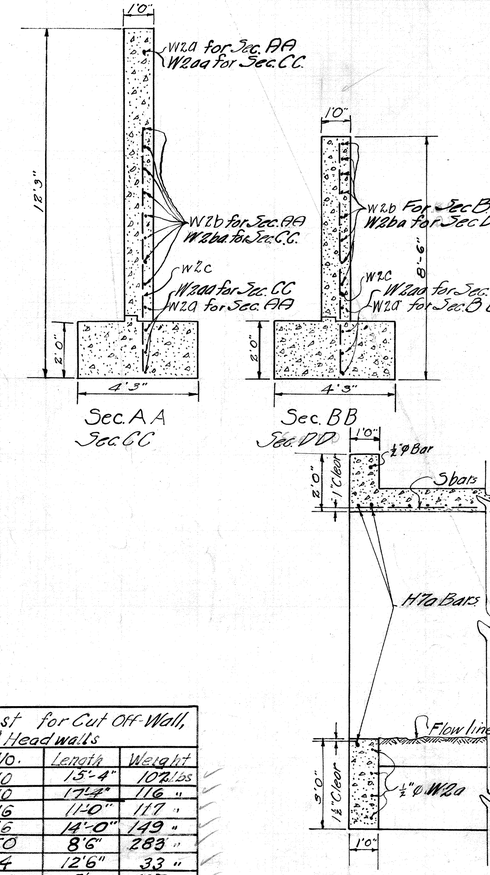
CULVERT DATA
TYPE: STD. SLAB TOP CULVERT
DR# SC-A.
SIZE: S = 9'; H = 8'; L 80'.
WORK REQUIRED. BUILD NEW
STD. SLAB TOP CULVERT
SKEW 20° RT. FORD
Remove Present 10'X4'X50' Brick Arch Culvert. Removal of same included in Excavation for Payment
Build and remove Temporary detour bridge over 9'X8' Culvert to the left of Station 71+80 See "NOTE TO CONTRACTOR" Sheet-3



ESTIMATED QUANTITES

Exc.	530	Cu. Yds.
1:5½ Conc.	1140	Cu. Yds.
1:6½ Conc.	44.5	Cu. Yds.
Reinf. Steel	7028	Lbs.
Temporary Detour Bridge	Lump Sum	

7-C



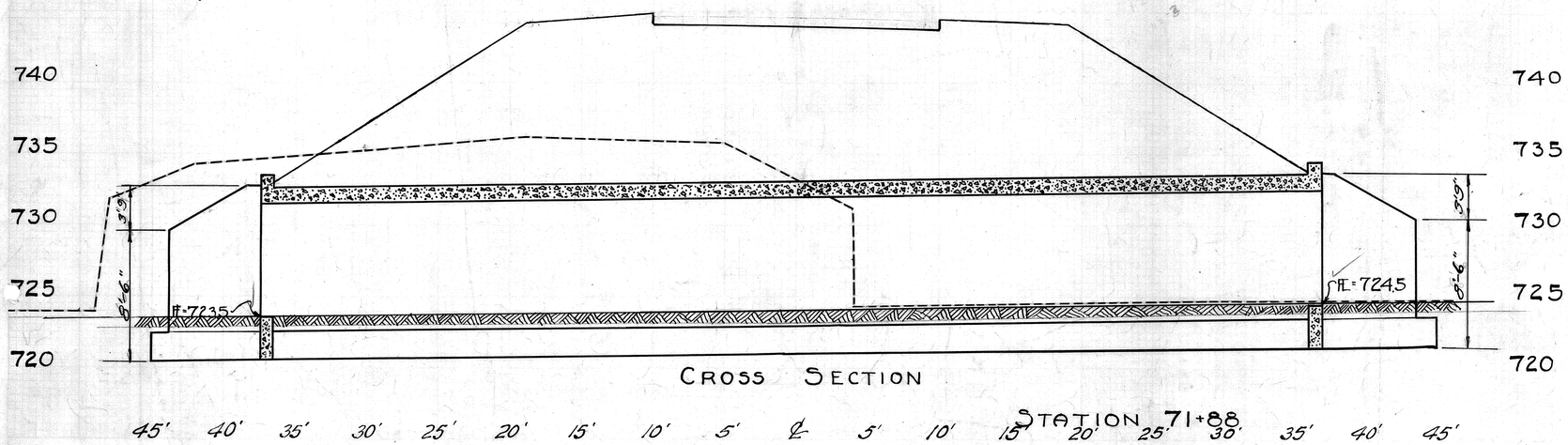
Steel List for Cut Off Wall, Wings & Head walls

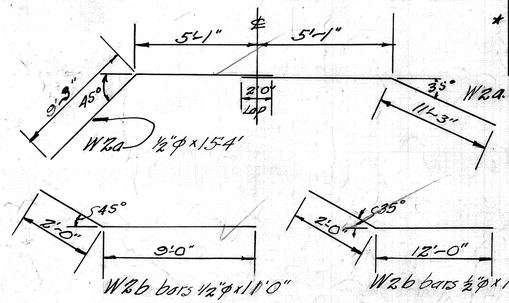
Type	No.	Length	Weight
W2a	10	15'-4"	102 Lbs
W2aa	10	17'-4"	116 "
W2b	16	11'-0"	117 "
W2b	16	14'-0"	149 "
W2c	50	8'6"	283 "
W2d	4	12'6"	33 "
W2a	32	5'	107 "
V2a	4	11'6	31 "
H7a	6	12'3"	196 "
Total			1134

STEEL FOR SLAB & 2 WALLS

Mark	No	Size	Length
35a	202	⅜" ℄	10'-6"
* T2a	54	½" ℄	41'-0"
V2a	160	½" ℄	11'-6"
Total			

* T2a bars to be lapped



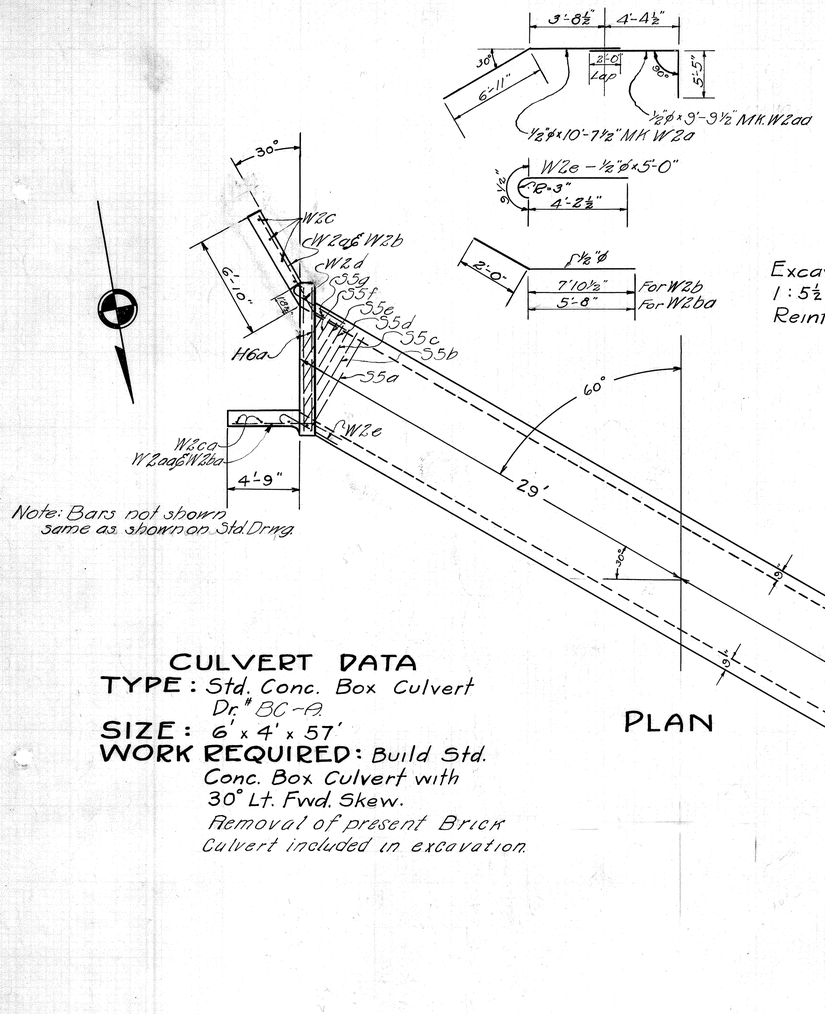


U. S. PUBLIC WORKS
PROJECT NO.

Fed. Aid District	STATE	Fed. Aid Project	Fiscal Year
10	OHIO	N.P. 11513-C	1934

S.H. (I.C.H.) 396. SEC. "B"
VINTON COUNTY.

35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35



Note: Bars not shown same as shown on Std Drwg.

ESTIMATED QUANTITIES.

Excavation	85 Cu. Yds.
1:5½ Concrete	45. Cu. Yds.
Reinforcing Steel	4209 Lbs.

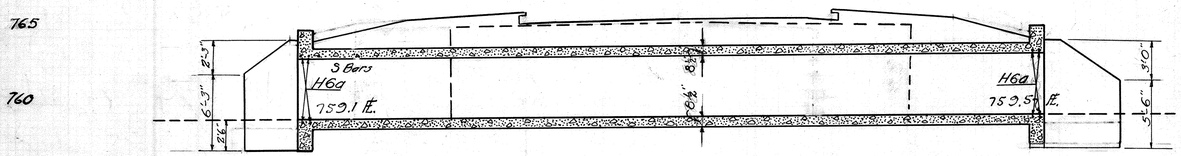
STEEL LIST

Mark	No.	Size	Shape	Length	Wt
W2c	8	½"ø	Str.	6'-3"	33
W2ca	6	½"ø	"	5'6"	22
W2d	4	½"ø	"	8'-0"	21
W2a	8	½"ø	Bent	10'-7½"	57
W2aa	8	½"ø	"	9'9½"	52
W2b	8	½"ø	"	9'-10½"	53
W2ba	8	½"ø	"	7'-8"	41
W2e	16	½"ø	"	5'-0"	53
55a	218	¾"ø	Str.	7'-3"	2374
55b	4	¾"ø	"	6'-11"	42
55c	4	¾"ø	"	6'-1"	37
55d	4	¾"ø	"	5'-3"	32
55e	4	¾"ø	"	4'-5"	27
55f	4	¾"ø	"	3'-8"	22
55g	4	¾"ø	"	2'10"	17
V8a	116	½"ø	"	5'-3"	407
T8a	20	½"ø	"	56'-6"	755
H6a	8	⅞"ø	"	10'0"	164
Total					4209

CULVERT DATA

TYPE: Std. Conc. Box Culvert Dr.# BC-A.
SIZE: 6' x 4' x 57'
WORK REQUIRED: Build Std. Conc. Box Culvert with 30° Lt. Fwd. Skew.
Removal of present Brick Culvert included in excavation.

PLAN



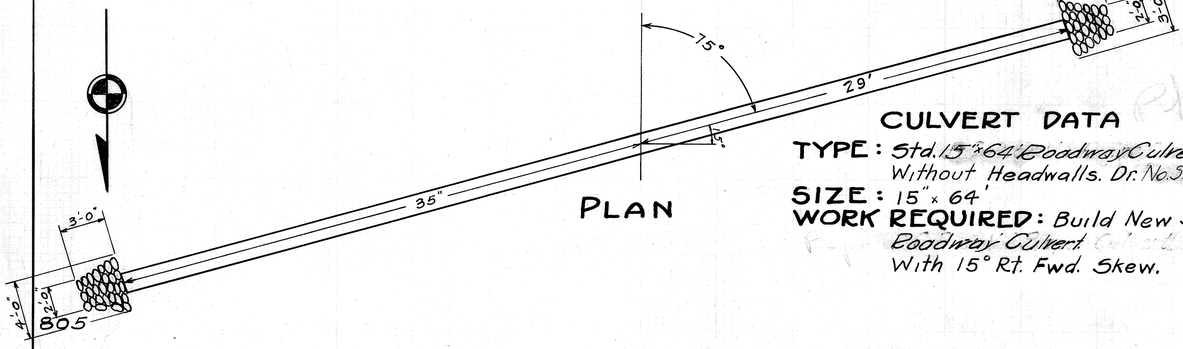
CROSS-SECTION

8-C

STATION 92+60

ESTIMATED QUANTITIES

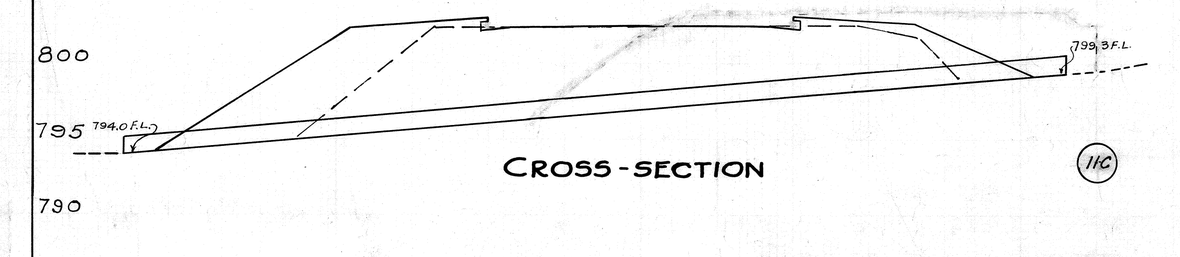
Excavation 32 Cu. Yds.
15" Pipe V.S.P. (a) enc. 64 Lin. Ft.
Hand Laid Rip-Rap 10" thick 2 Sq. Yds.



PLAN

CULVERT DATA

TYPE: Std. 15" x 64' Roadway Culvert Without Headwalls. Dr. No. S-27-P
SIZE: 15" x 64'
WORK REQUIRED: Build New Roadway Culvert With 15° Rt. Fwd. Skew.

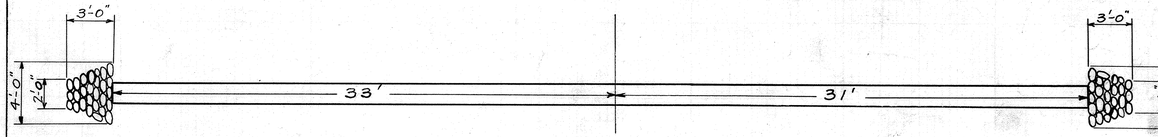


CROSS-SECTION

11C

STATION 109+27

35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35



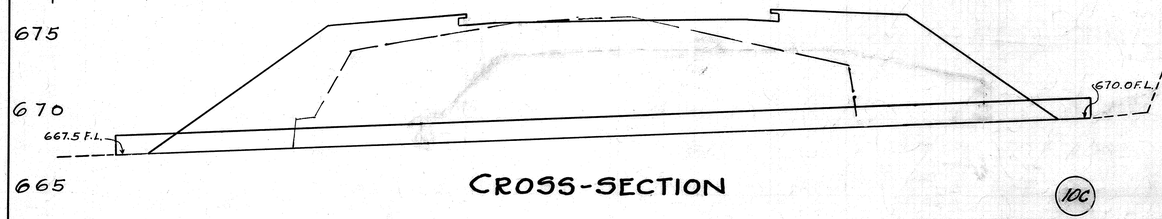
PLAN

ESTIMATED QUANTITIES

Excavation 30 Cu. Yds.
15" Pipe V.S.P. (a) enc. 64 Lin. Ft.
Hand Laid Rip-Rap. 10" thick 2 Sq. Yds.

CULVERT DATA

TYPE: Std. 15" x 64' Roadway Culvert Without Headwalls. Dr. No. S-27-P
SIZE: 15" x 64'
WORK REQUIRED: Build New Std. Roadway Culvert.



CROSS-SECTION

10C

STATION 100+05

U. S. PUBLIC WORKS
PROJECT NO.

Fed. Aid District	STATE	Fed. Aid Project	Fiscal Year
10	OHIO	NRH573-C	1934

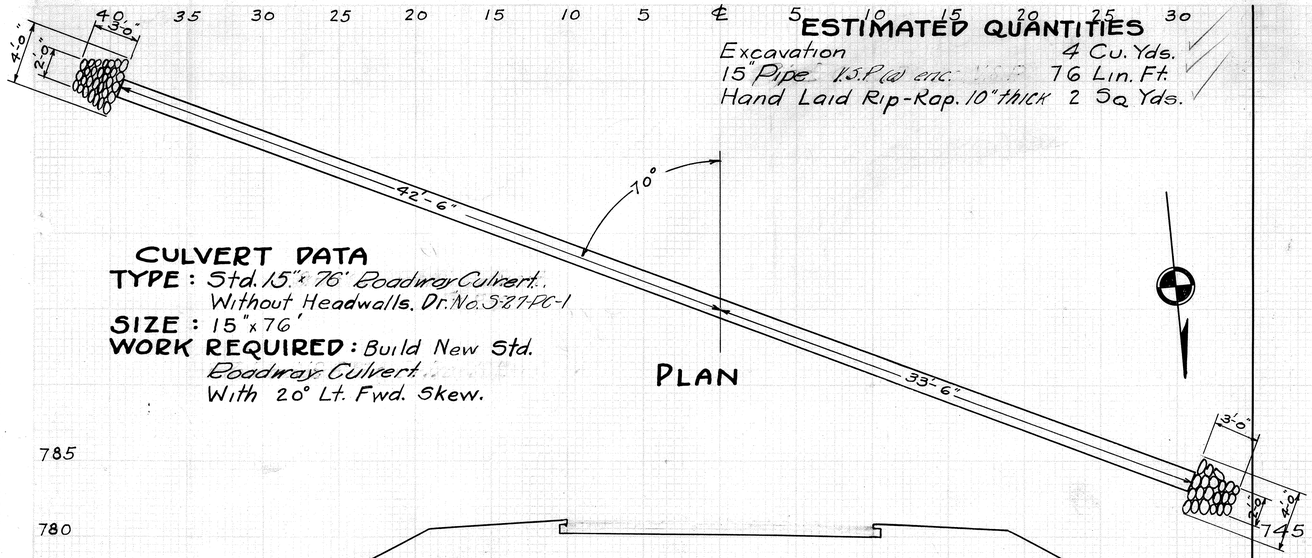
S.H.(I.C.H)396 SEC."B"
VINTON COUNTY

ESTIMATED QUANTITIES

Excavation	4 Cu. Yds.
15" Pipe V.S.P.(a) enc.	76 Lin. Ft.
Hand Laid Rip-Rap 10" thick	2 Sq. Yds.

CULVERT DATA

TYPE: Std. 15"x 76' Roadway Culvert. Without Headwalls. Dr. No. 537-PC-1
SIZE: 15"x 76'
WORK REQUIRED: Build New Std. Roadway Culvert. With 20° Lt. Fwd. Skew.

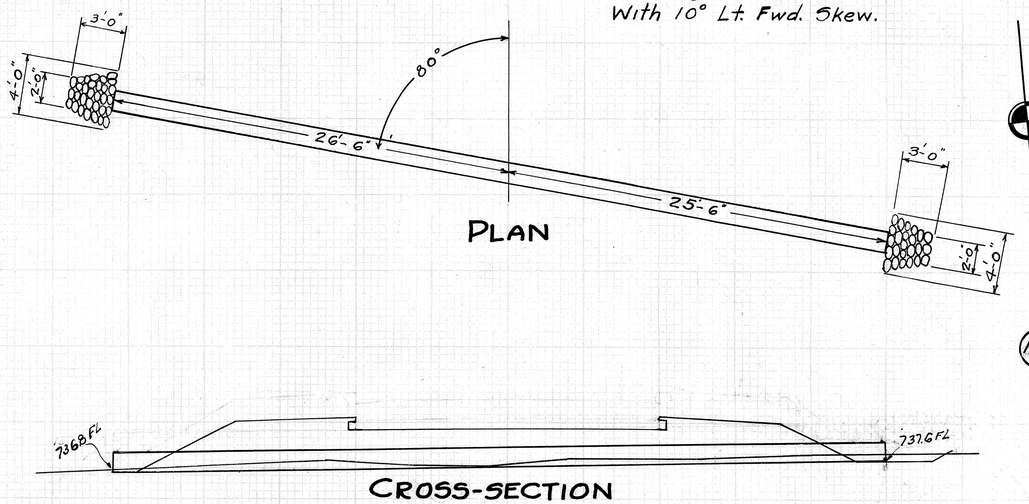


ESTIMATED QUANTITIES

Excavation	7 Cu. Yds.
15" Pipe V.S.P.(a) enc.	52 Lin. Ft.
Hand Laid Rip-Rap 10" thick	2 Sq. Yds.

CULVERT DATA

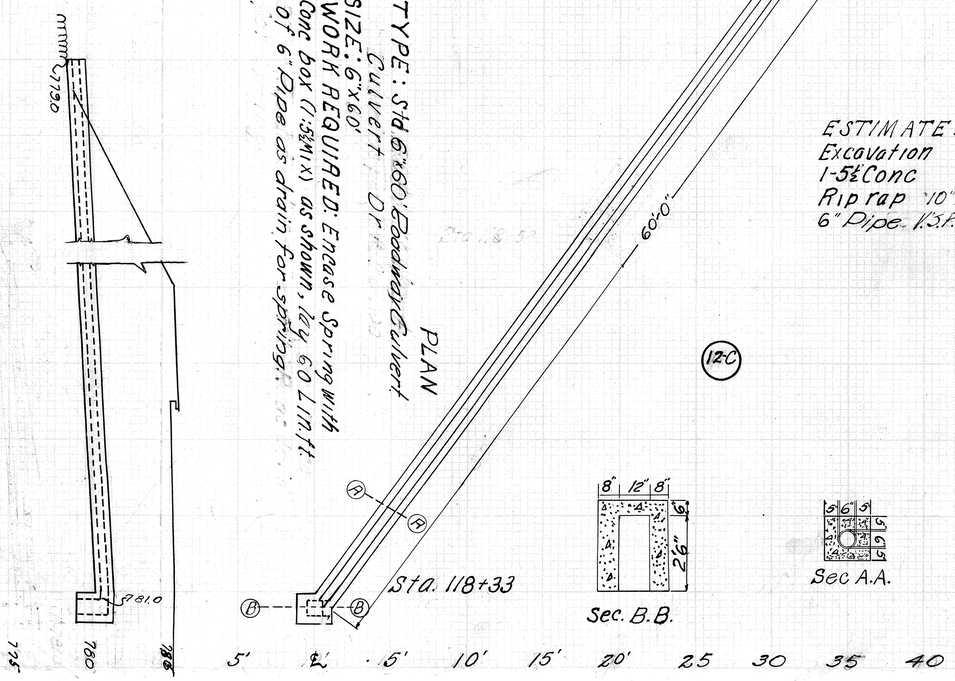
TYPE: Std. 15"x 52" Roadway Culvert. Culvert Without Headwalls. Dr. No. 537-PC-1
SIZE: 15"x 52'
WORK REQUIRED: Build New Std. Roadway Culvert. With 10° Lt. Fwd. Skew.



STATION 129+20

ESTIMATED QUANTITIES

Excavation	10 Cu Yds
1-5℄ Conc	0.5 Cu Yds
Rip rap 10" thick	1 Sq Yd.
6" Pipe V.S.P.(a) enc.	60 Lin. Ft.

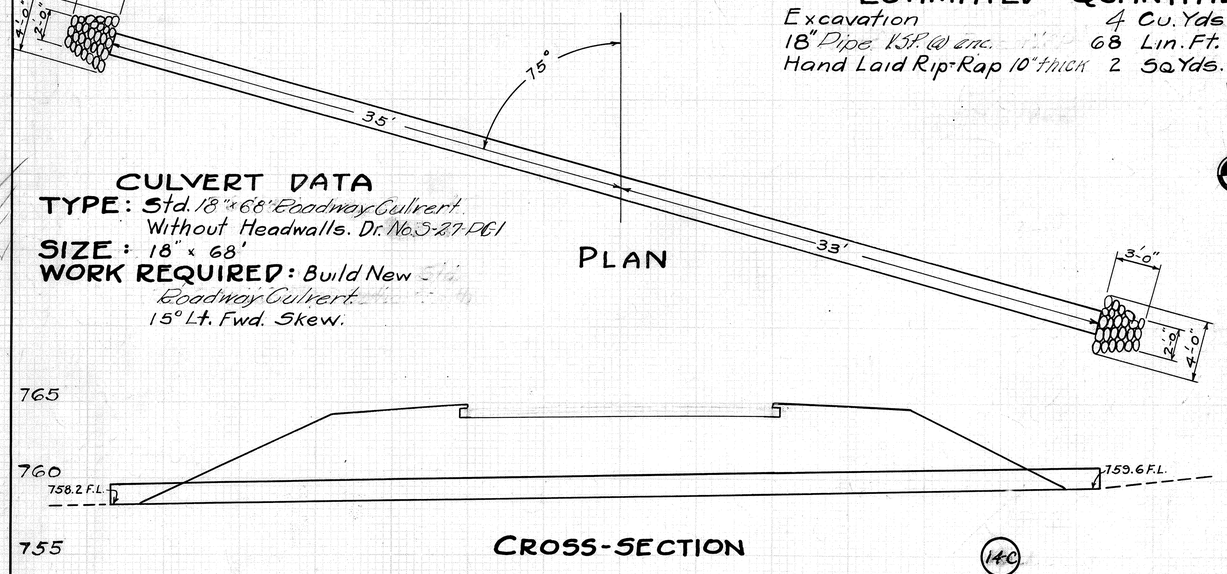


ESTIMATED QUANTITIES

Excavation	4 Cu. Yds.
18" Pipe V.S.P.(a) enc.	68 Lin. Ft.
Hand Laid Rip-Rap 10" thick	2 Sq. Yds.

CULVERT DATA

TYPE: Std. 18"x 68" Roadway Culvert Without Headwalls. Dr. No. 3-27-PC1
SIZE: 18" x 68'
WORK REQUIRED: Build New Roadway Culvert. 15° Lt. Fwd. Skew.



STATION 122+28

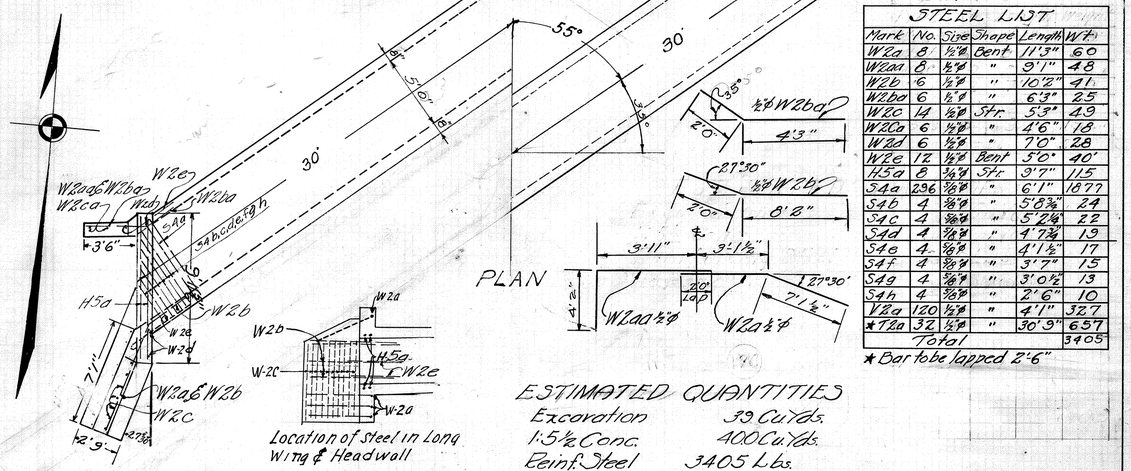
U. S. PUBLIC WORKS
PROJECT NO.

Fed. Aid District	STATE	Fed Aid Project	Fisca Year
10	OHIO	NRH5736	1934

S.H. (I.C.H.) 396 Sec. "B & B
VINTON COUNTY

CULVERT DATA

TYPE: Standard Conc Box Culvert Dr BC-A
SIZE: 5'X3'X 60'
WORK REQUIRED: Build new Std 5'x3'x 60' Conc. box Culvert with 35° Rt forward skew



STEEL LIST

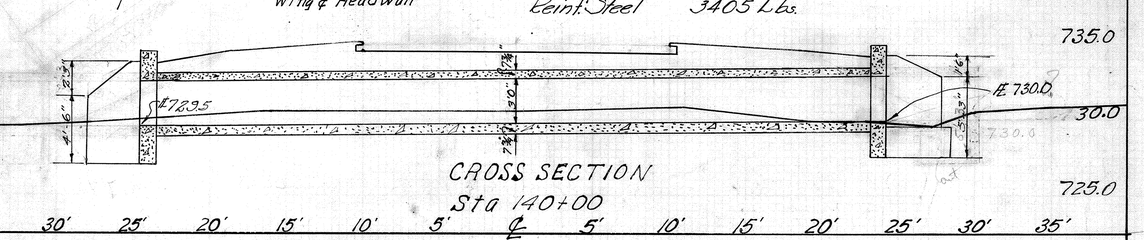
Mark	No.	Size	Shape	Length	Wt.
W2a	8	½" ℄	Bent	11'3"	60
W2aa	8	½" ℄	"	9'1"	48
W2b	6	½" ℄	"	10'2"	41
W2ba	6	½" ℄	"	6'3"	25
W2c	14	½" ℄	Str.	5'3"	49
W2ca	6	½" ℄	"	4'6"	18
W2d	6	½" ℄	"	7'0"	28
W2e	12	½" ℄	Bent	5'0"	40
H5a	8	⅝" ℄	Str.	3'7"	115
S4a	296	⅝" ℄	"	6'1"	1877
S4b	4	⅝" ℄	"	5'8⅜"	24
S4c	4	⅝" ℄	"	5'2⅝"	22
S4d	4	⅝" ℄	"	4'7¾"	19
S4e	4	⅝" ℄	"	4'1½"	17
S4f	4	⅝" ℄	"	3'7"	15
S4g	4	⅝" ℄	"	3'0½"	13
S4h	4	⅝" ℄	"	2'6"	10
V2a	120	½" ℄	"	4'1"	327
★T2a	32	½" ℄	"	30'9"	657
Total					3405

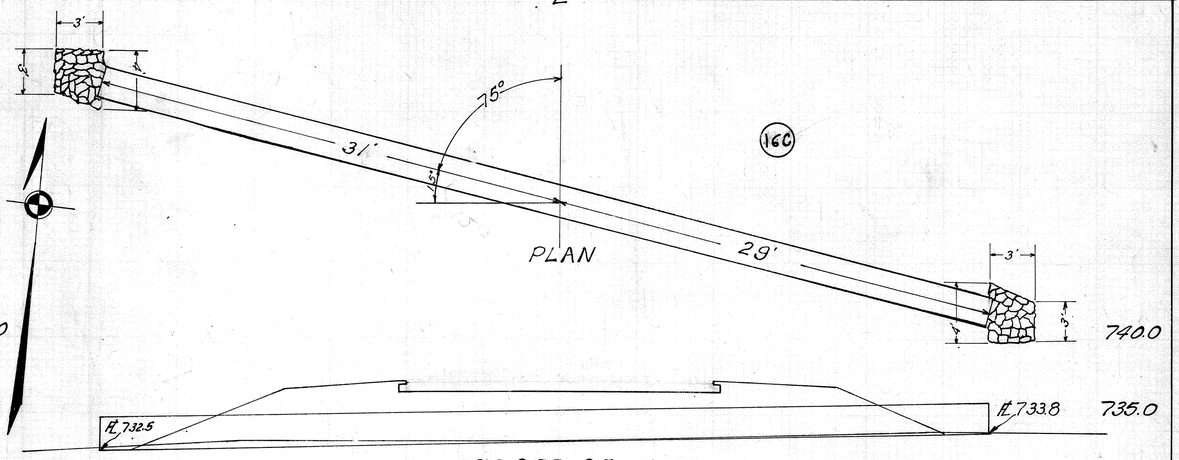
★ Bar to be lapped 2'6"

Location of Steel in Long Wing & Headwall

ESTIMATED QUANTITIES

Excavation	39 Cu Yds.
1:5½ Conc.	400 Cu Yds.
Reinf. Steel	3405 Lbs.





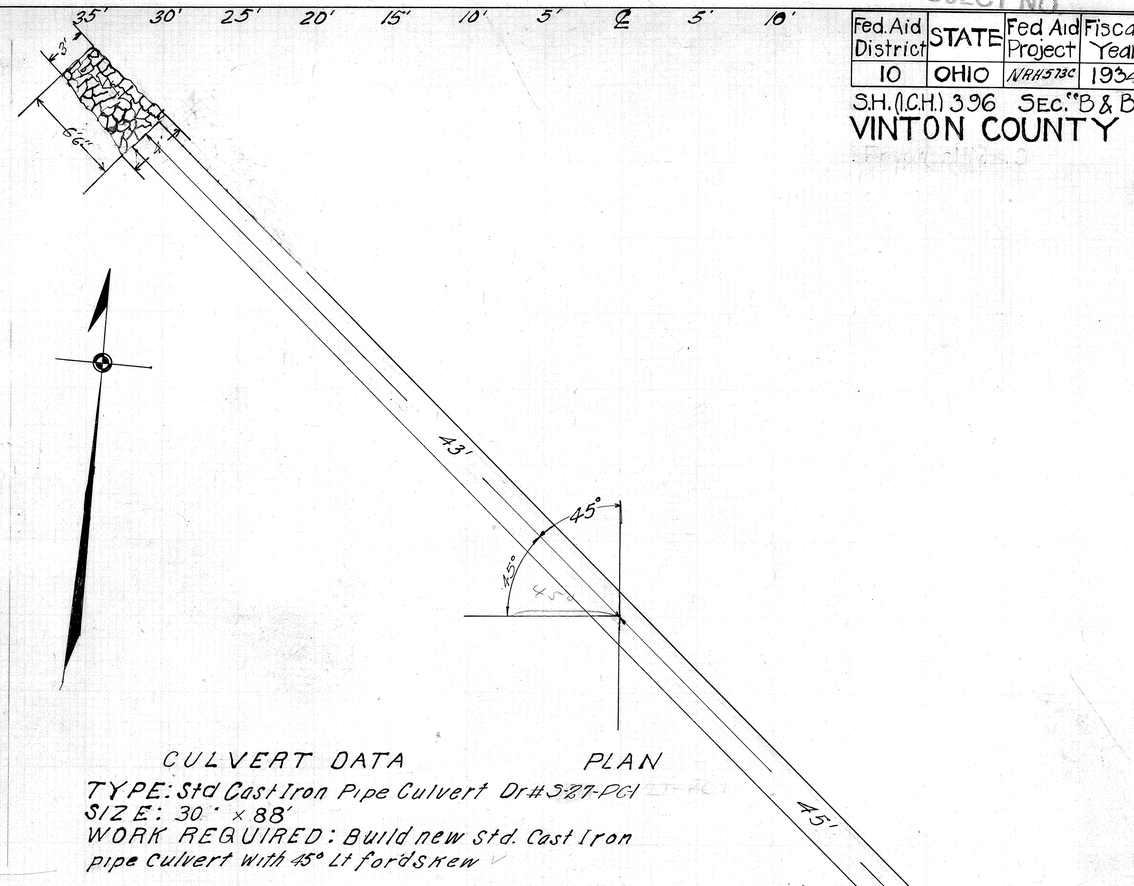
CULVERT DATA

TYPE: Std Cast Iron Pipe Culvert Dr #527-PCI
SIZE: 24" x 60'
WORK REQUIRED: Build new Std Cast Iron pipe Culvert with 15° Lt Forward skew

ESTIMATED QUANTITIES

Excavation	3 Cu.Yds.
24" Cast Iron Pipe	60 Lin.Ft.
Rip Rap 10" thick	2.3 Sq. Yds.

STA 132+50



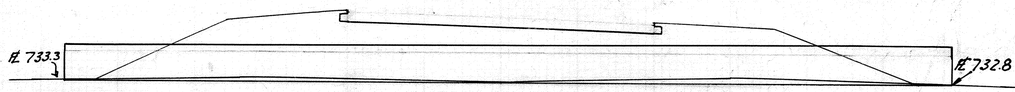
CULVERT DATA

TYPE: Std Cast Iron Pipe Culvert Dr #527-PCI
SIZE: 30" x 88'
WORK REQUIRED: Build new Std. Cast Iron pipe Culvert with 45° Lt forward skew

(18C)

ESTIMATED QUANTITIES

Excavation	3 Cu.Yds.
30" Cast Iron Pipe	88 Lin Ft.
Rip Rap 10" thick	5 Sq Yds.



CROSS SECTION

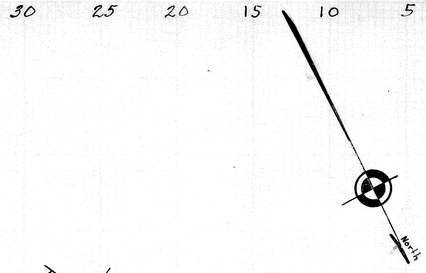
STA 145+00

U. S. PUBLIC WORKS
PROJECT NO.

Fed. Aid District	STATE	Fed Aid Project	Fiscal Year
10	OHIO	NRHS-73C	1936

S.H. (I.C.H.) 396 SEC. "B & E"

VINTON COUNTY



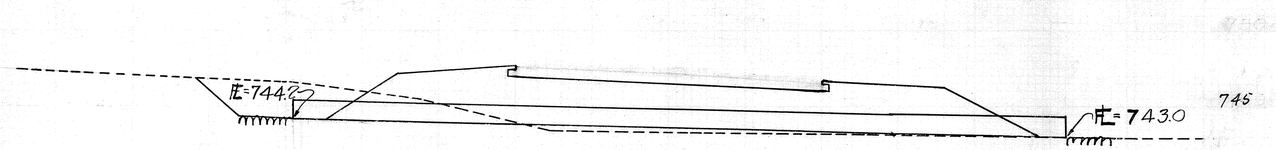
Estimated Quantities

Exc.	11 Cu. Yds.
15" Pipe. V.S.P. (a) etc.	62 Lin. Ft.
Hand Laid Rip Rap 10" thick	2.3 Sq Yds.

PLAN

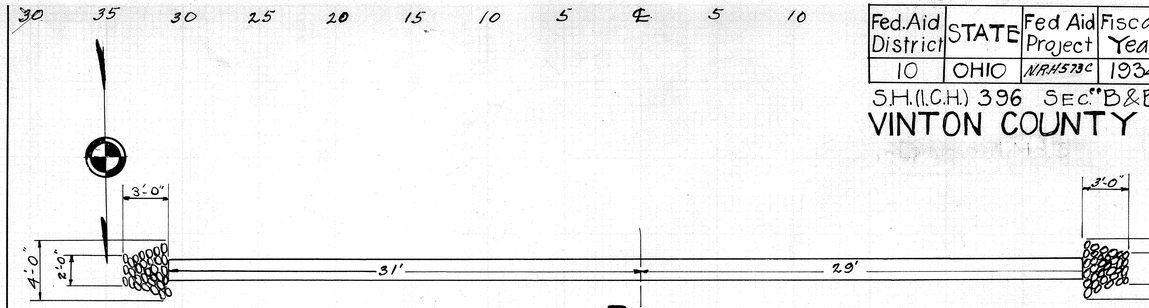
Culvert Data.

Type: Std. 15"x62' Roadway Culvert Without Headwalls. Dr # 527-PC-1
Size: 15" x 62'
Work Required: Build New Roadway Culvert With 35° Lt. Fwd. Skew.



CROSS-SECTION

STATION 153+10



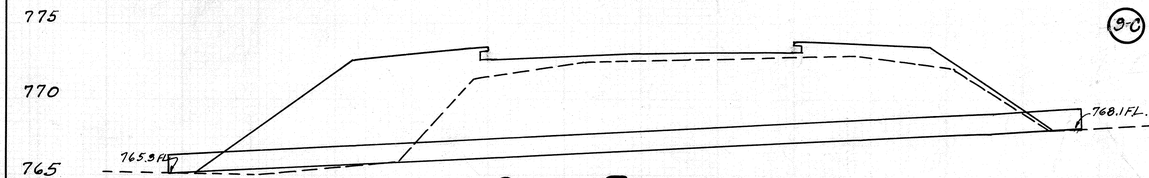
PLAN

ESTIMATED QUANTITIES

Excavation	30 Cu. Yds.
15" Pipe V.S.P. (a) etc.	60 Lin. Ft.
Hand Laid Rip-Rap 10" thick	2 Sq Yds.

CULVERT DATA

TYPE: Std. 15"x60' Roadway Culvert without Headwalls. Dr. #
SIZE: 15" x 60'
WORK REQUIRED: Build New Roadway Culvert. Remove Present 12" Corr. P



CROSS-SECTION

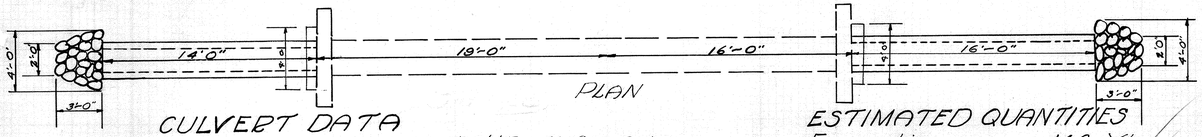
STATION 97+79

U. S. PUBLIC WORKS
PROJECT NO.

Fed.Aid District	STATE	Fed.Aid Project	Fisc Year
10	OH 10	NEH.573C	1934

S.H. (I.C.H.) 396 Sec. "B"
VINTON COUNT

Station 176+45
Drainage Structure 21-C



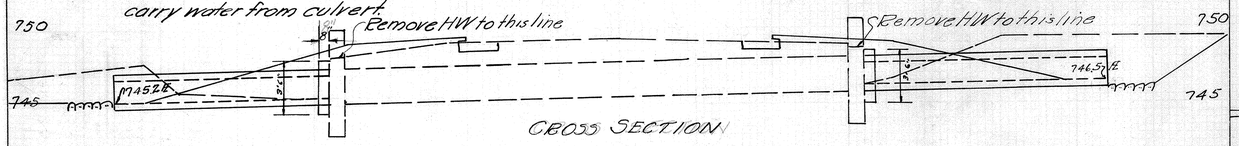
PLAN

CULVERT DATA

Type – Std. 18"x30' Roadway Culvert Std Dwg No 327-PC-1
Size – 18" x 30' extensions.
Work Requ'd – Remove tops of old headwalls.
Extend existing 18" corr. iron pipe enc. culv.
16' B.E. 14' L anchoring to old headwalls with dowels and 1:8 conc. collars. Dowels to be entered in present structure 10 inches. No headwalls required.
Excavate channel on Lt side to the required distance to carry water from culvert.

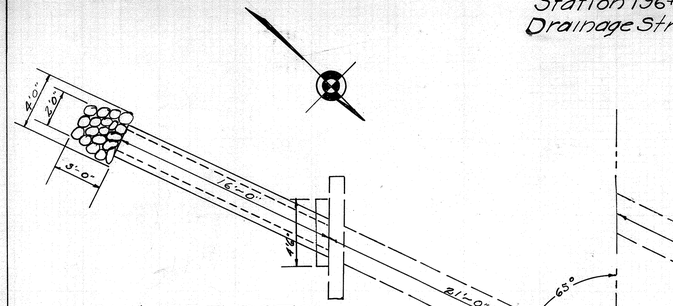
ESTIMATED QUANTITIES

Excavation	14 Cu Yds
Concrete 1:8	0.5 Cu Yds.
18" Pipe V.S.P. (a) enc.	30 Lin. Ft.
Dowels ⅝" x 18"	8 Pcs.
Rip Rap 10" thick	2 Sq Yds.
Remove portion H.W.	Lump



CROSS SECTION

Station 196+34
Drainage Structure 23-C



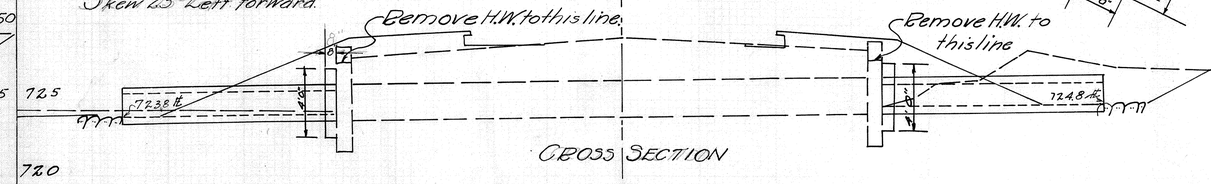
PLAN

CULVERT DATA

Type – Std. 18"x32' Roadway Culv. Std Dwg. No. 327-PC-1
Size – 18" x 32' extensions
Work Requ'd. Remove tops of old headwalls.
Extend existing 18" corr. iron pipe enc. culv.
16' B.E. 16' L anchoring to old headwalls with dowels and 1:8 conc. collars. Dowels to be entered in present structure 10 inches. No headwalls requ'd.
Skew 25° Left forward.

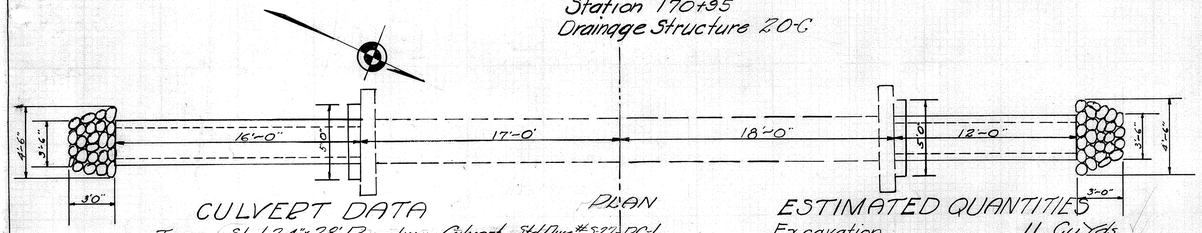
ESTIMATED QUANTITIES

Excavation	6
Concrete 1:8	0.5
18" Pipe V.S.P. (a) enc.	32
Dowels ⅝" x 18"	8
Rip Rap 10" thick	2
Remove portion H.W.	



CROSS SECTION

Station 170+95
Drainage Structure 20-C



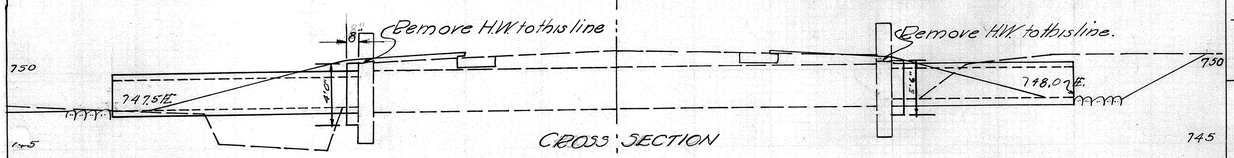
PLAN

CULVERT DATA

Type – Std. 24"x28' Roadway Culvert Std Dwg. #527-PC-1
Size – 24" x 28 extensions.
Work Requ'd – Remove tops of old headwalls.
Extend existing 24" corr. iron pipe enc. culv.
12' B.E. 16' L anchoring to old headwalls with dowels & 1:8 conc. collars. Dowels to be entered in present structure 10 inches. No headwalls requ'd.
The foundation under left end to be built up of suitable material according to Sec. E-2.
Payment of same to be included in Item of Exc.

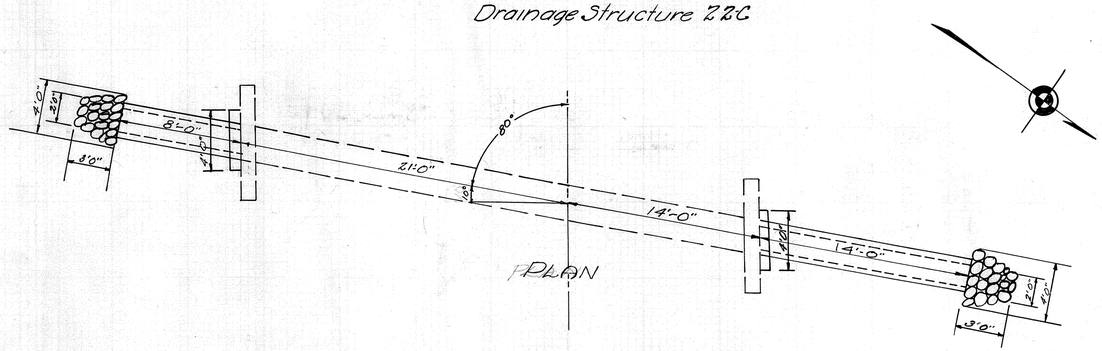
ESTIMATED QUANTITIES

Excavation	11 Cu Yds.
Concrete 1:8	0.5 Cu Yds.
24" Pipe V.S.P. (a) enc.	28 Lin. Ft.
Dowels ⅝" x 18"	8 Pcs.
Rip Rap	2.7 Sq Yds.
Remove portion H.W.	Lump

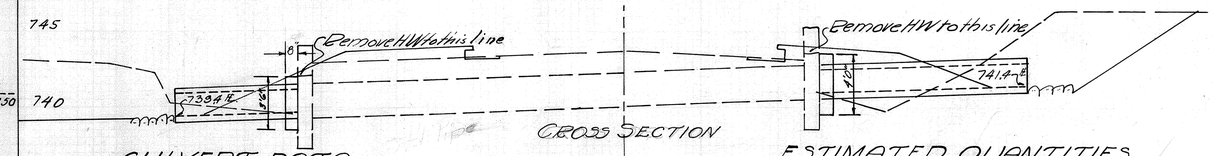


CROSS SECTION

Station 185+55
Drainage Structure 22C



PLAN



CROSS SECTION

CULVERT DATA

Type – Std. 18"x22' Roadway Culvert Std Dwg No. S-274-PC-1
Size – 18" x 22' extensions
Work Requ'd – Remove tops of old headwalls.
Extend existing 18" corr. iron pipe enc. culv.
14' B.E. 8' L anchoring to old headwalls with dowels and 1:8 conc. collar. Dowels to be entered in present structure 10 inches. No headwalls required. Skew 10° Lt. fwd.

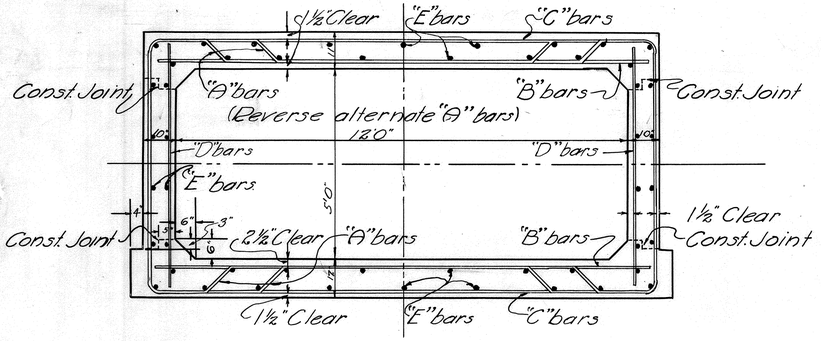
ESTIMATED QUANTITIES

Excavation	8 Cu Yds.
Concrete 1:8	0.5 Cu Yds.
18" Pipe V.S.P. (a) enc.	22 Lin. Ft.
Dowels ⅝" x 18"	8 Pcs.
Rip Rap	2 Sq Yds.
Remove portion H.W.	Lump

Fed. Rd. District	STATE	Fed Aid Project	F
10	OHIO	NRH-513-C	

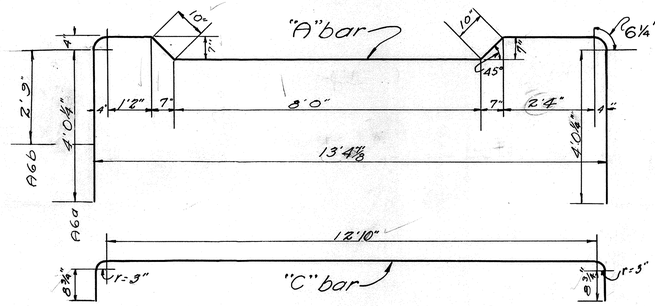
U. S. PUBLIC WORKS PROJECT NO.

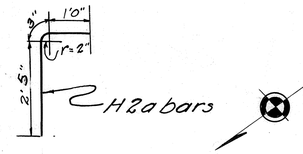
S.H.(I.C.H.)-396 Sec. "E"
VINTON COUNTY



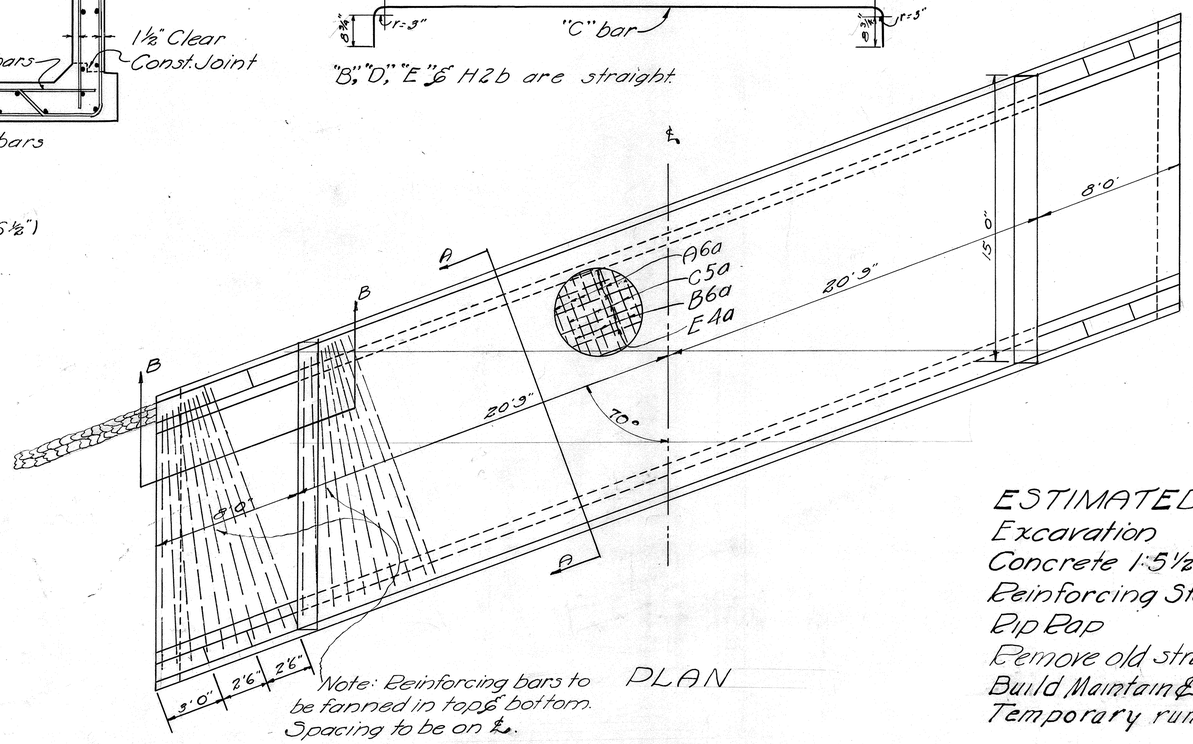
"B", "C", & "D" bars occupy each third space, "A" bars each first and second space. (Spaces are 6½")

Section AA





"B", "D", "E" & H2b are straight.



Note: Reinforcing bars to be fanned in top & bottom. Spacing to be on ℄.

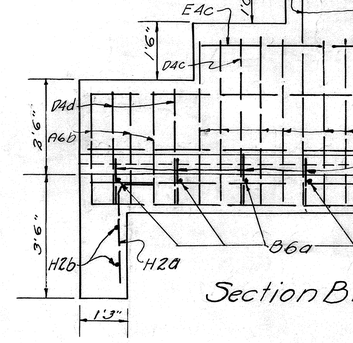
PLAN

STEEL LIST

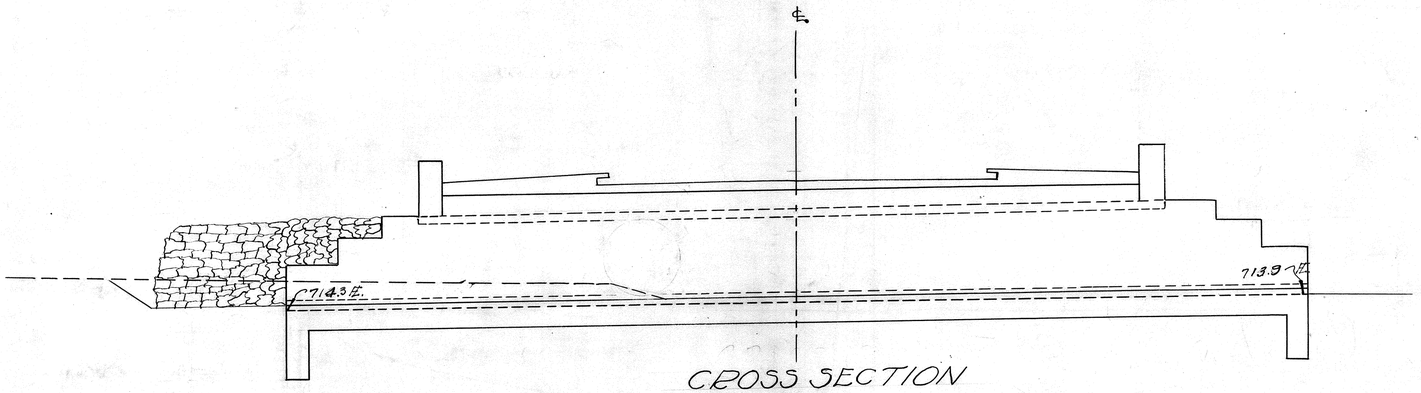
Mark	Pcs.	Size	Length	Space	Weight
A6a	117	⅞"ø	22'3"	As shown	5321
A6b	6	⅞"ø	19'3½"	" "	243
B6a	61	⅞"ø	13'4"	13½" Cts.	1662
C5a	61	¾"ø	15'1"	13½" Cts	1382
D4a	51	⅝"ø	6'6"	13½" Cts.	346
D4b	8	⅝"ø	5'7"	13½" Cts.	47
D4c	4	⅝"ø	4'7"	13½" Cts.	19
D4d	8	⅝"ø	3'1"	13½" Cts.	26
E4a	17	⅝"ø	41'0"	As Shown	727
E4b	4	⅝"ø	46'0"	" "	192
E4c	4	⅝"ø	51'0"	" "	213
E4d	25	⅝"ø	57'0"	" "	1486
H2a	64	½"ø	3'8"	12" cts.	157
H2b	8	½"ø	14'9"	As Shown	79
			Total		11,900

ESTIMATED QUANTITIES

Excavation	60 Cu. Yds.
Concrete 1:5½	73.5 Cu. Yds.
Reinforcing Steel	11,900 Lbs
Rip Rap	10 Sq. Yds.
Remove old structure	Lump
Build Maintain & Remove Temporary run around.	Lump



Section B



CROSS SECTION

Station 201+81
Drainage Structure 24-C

CULVERT DATA

Type - Special Conc Box Culvert
Size - 12' x 5' x 57'6"
Work Req'd - Remove present 12'4"x20' con
with 6" slab top. Build special 12'x5'x57'6" with ste
on ends with 20° Rt. Ford skew. Use 10 sq yds. of
present bridge for Rip Rap on Lt end as Engr.
Std. Dwg. No. BC-B6 C E A.
Build maintain & remove temporary run a
ning at the right of Sta 200+00 and cross
county bridge at Rt of Sta 201+90, term
Sta 202+25. Temporary run around to be
lane traffic bound type see TRAFFIC NO
Estimate of lump sum does not include T

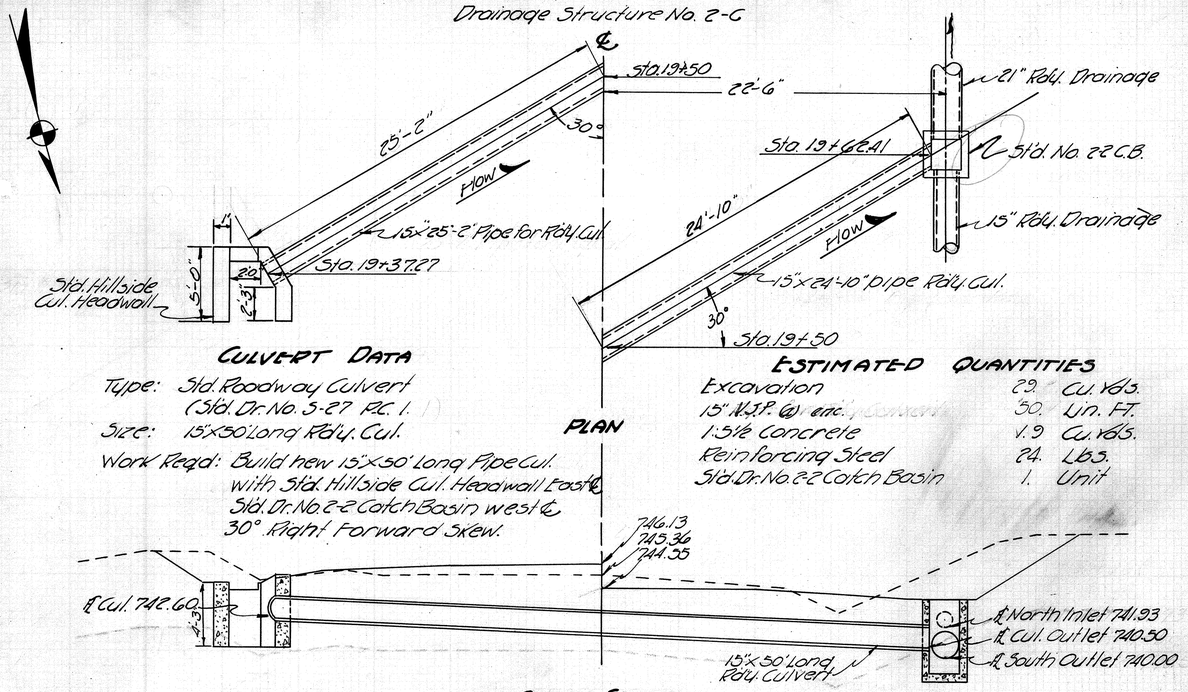
FED. AID DIST. NO	STATE	FED. AID PROJECT	FISCAL YEAR
10	OHIO	N.H.F. 373-C	1934

S.H. 396 SEC. H.
VINTON COUNTY

U. S. PUBLIC WORKS
PROJECT NO.

NOT A PART OF THIS CONTRACT

STA. 19+50
Drainage Structure No. 2-C



CULVERT DATA
Type: Std. Roadway Culvert (Std. Dr. No. S-27 P.C.I.)
Size: 15"x50' Long R.C.P. Cul.
Work Reqd: Build new 15"x50' Long Pipe Cul. with Std. Hillside Cul. Headwall East ℄ Std. Dr. No. 2-2 Catch Basin west ℄ 30° Right Forward Skew.

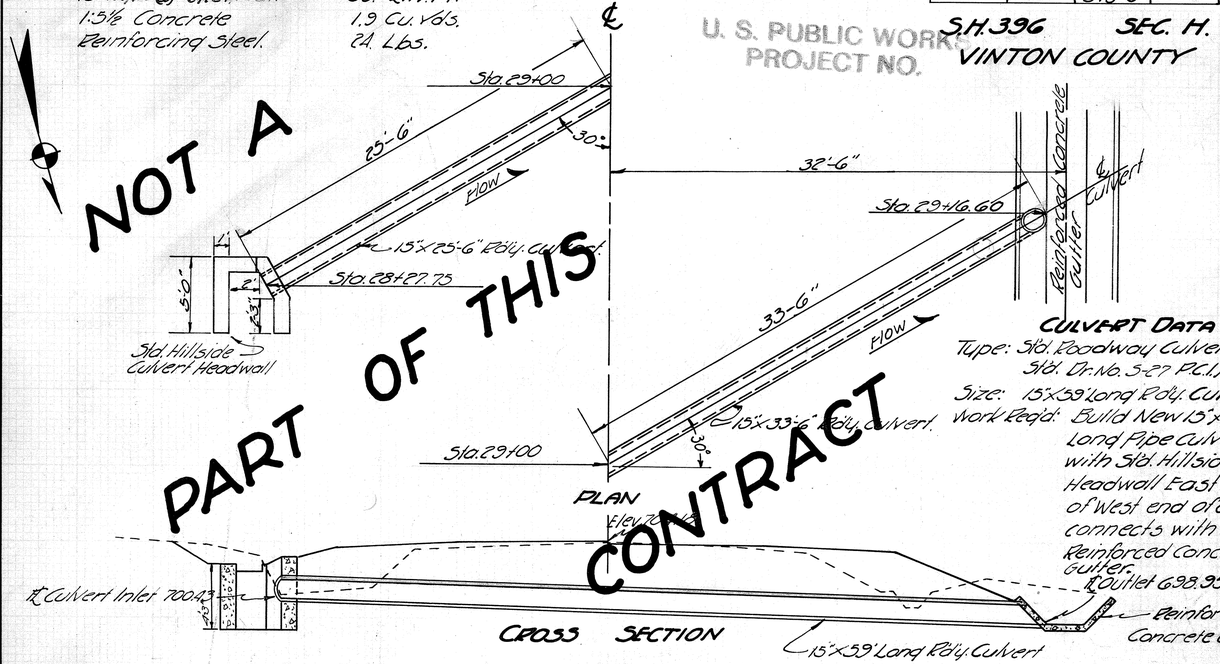
ESTIMATED QUANTITIES

Excavation	29.	Cu. Yds.
15" N.S.P. (a) enc. Culvert	50.	Lin. FT.
1:5½ Concrete	1.9	Cu. Yds.
Reinforcing Steel	24.	Lbs.
Std. Dr. No. 2-2 Catch Basin	1.	Unit

STA. 29+00
Drainage Structure No. 4-C

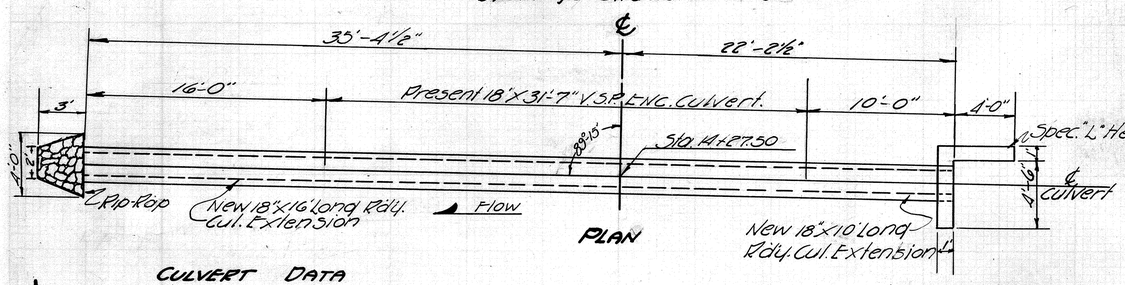
ESTIMATED QUANTITIES

Excavation	27.	Cu. Yds.
15" N.S.P. (a) enc. Cul.	59.	Lin. FT.
1:5½ Concrete	1.9	Cu. Yds.
Reinforcing Steel	24.	Lbs.



CULVERT DATA
Type: Std. Roadway Culvert Std. Dr. No. S-27 P.C.I.
Size: 15"x59' long R.C.P. Cul.
Work Reqd: Build New 15"x Long Pipe Culv with Std. Hillsi Headwall East of West end of connects with Reinforced Conc Gutter. ℄ Outlet 698.9
Reinfor Concrete

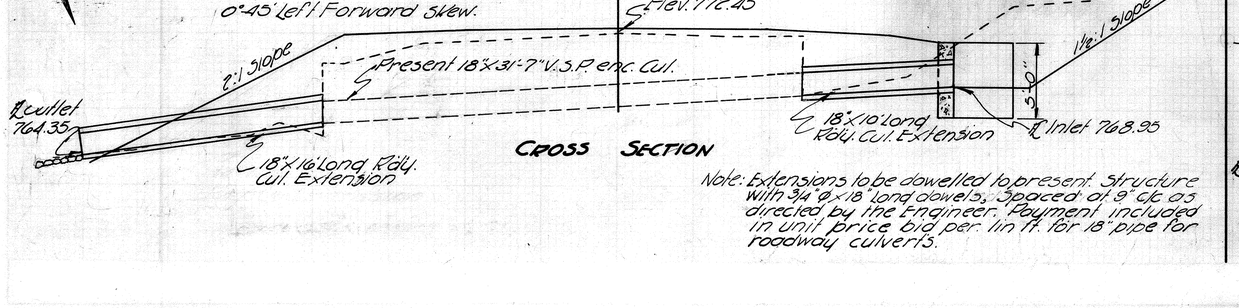
STA. 14+27.50
Drainage Structure No. 1-C



CULVERT DATA
Type: Std. Roadway Culvert Extensions (Std. Dr. No. S-27 P.C.I.)
Size: 18"x10' Long West ℄ & 18"x16' Long East ℄
Work Reqd: Build New 18"x10' Long Pipe Cul. Extension with Spec. "L" Headwall West ℄ and build new 18"x16' Long Pipe Culvert Extension East ℄ 0°-45' Left Forward Skew.

ESTIMATED QUANTITIES

Excavation	9.	Cu. Yds.
18" W.S.P. (a) enc. Culvert	26.	Lin. FT.
1:5½ Concrete	1.70	Cu. Yds.
Reinforcing Steel	40.	Lbs.
Rip-Rap (10" depth)	1.	Sq. Yd.

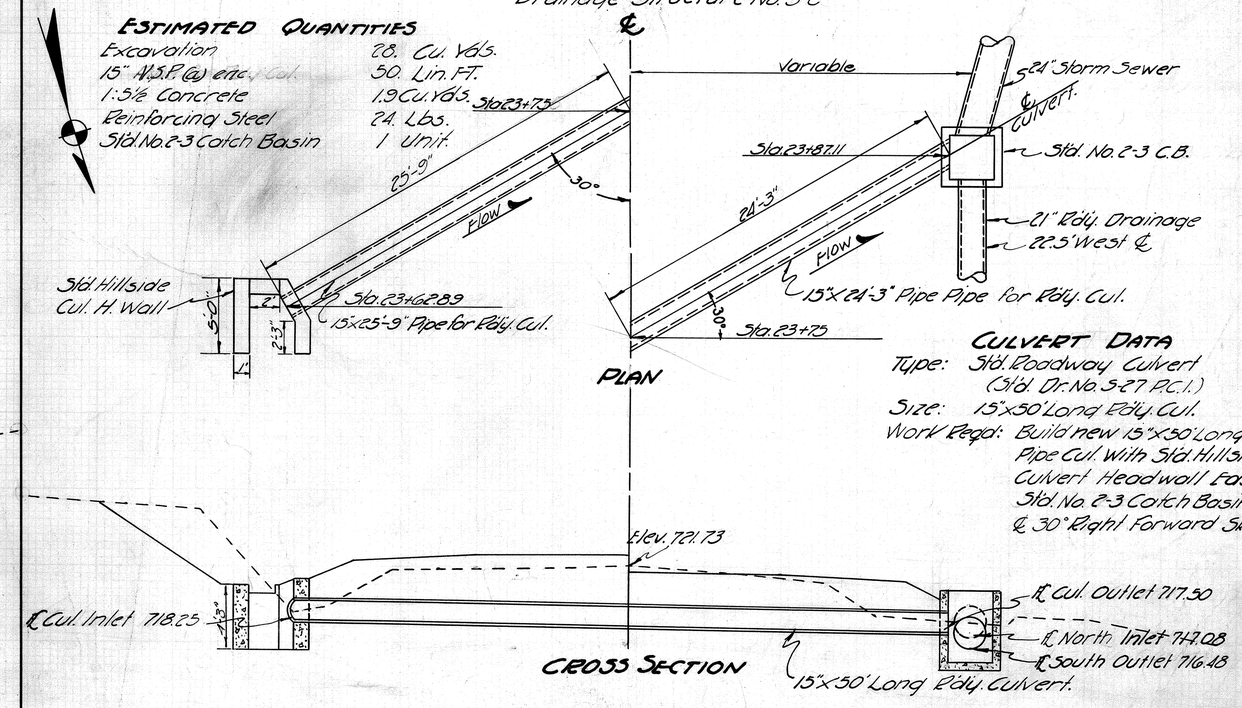


Note: Extensions to be dowelled to present Structure with ¾" ϕ x 18" Long dowels, Spaced at 9" c/c as directed by the Engineer. Payment included in unit price bid per lin ft. for 18" pipe for roadway culverts.

STA. 23+75
Drainage Structure No. 3-C

ESTIMATED QUANTITIES

Excavation	28.	Cu. Yds.
15" N.S.P. (a) enc. Culvert	50.	Lin. FT.
1:5½ Concrete	1.9	Cu. Yds.
Reinforcing Steel	24.	Lbs.
Std. No. 2-3 Catch Basin	1	Unit



CULVERT DATA
Type: Std. Roadway Culvert (Std. Dr. No. S-27 P.C.I.)
Size: 15"x50' Long R.C.P. Cul.
Work Reqd: Build new 15"x50' Long Pipe Cul. With Std. Hills Culvert Headwall Eas Std. No. 2-3 Catch Basi ℄ 30° Right Forward Sk

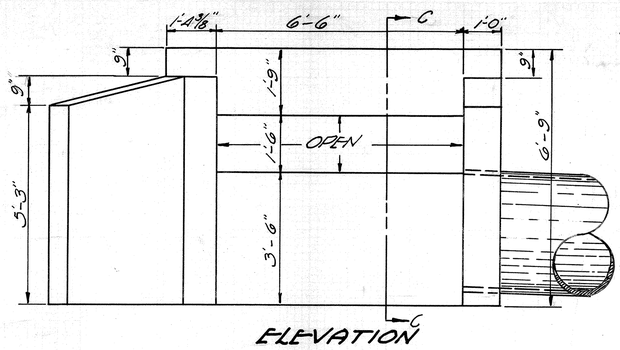
U. S. PUBLIC WORKS
PROJECT NO.

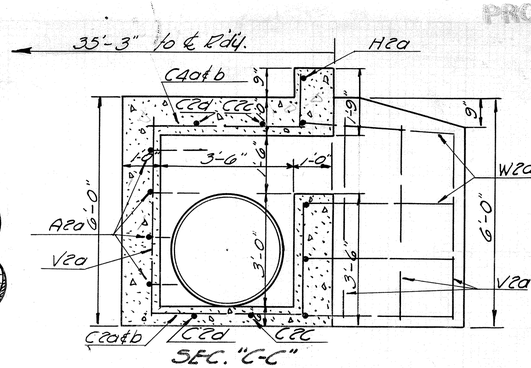
FED AID DIST. NO.	STATE	FED AID PROJECT	FISCAL YEAR
10	OHIO	N.R.H. 573-C	1934

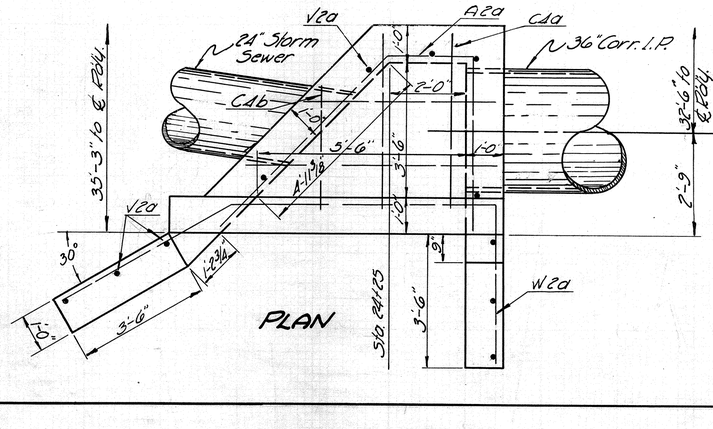
S.H. 396. SEC "A"
VINTON COUNTY

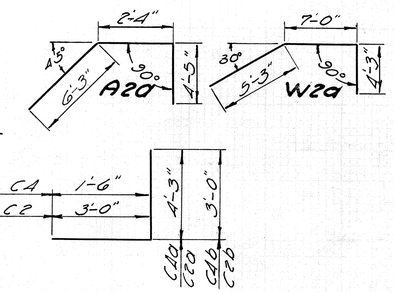
P.C. 0+94					P.T. 5+64.74		
Left					Right		
Add to L. Edge Grade	Edge of Pavement	Width	Station	Profile Grade	Width	Edge of Pavement	Add to L. Edge Grade
0.00	722.01	10.00	0-06	722.18	10.00	722.01	0.17
0.06	722.19		0+00	722.30	10.01	722.13	
0.31	723.41		0+25	723.27	10.14	723.10	
0.56	724.75		0+50	724.36	10.44	724.19	
1.81	726.19		0+75	725.55	10.91	725.38	
1.00	727.37		0+94	726.34	11.44	726.37	
1.06	727.75		1+00	726.86	11.62	726.69	
1.31	729.41		1+25	728.27	12.17	728.10	
1.50	730.76		1+44	729.43	12.33	729.26	
	731.13		1+50	729.80		729.63	
	732.78		1+75	731.45		731.28	
	734.53		2+00	733.20		733.03	
	736.34		2+25	735.01		734.84	
	738.15		2+50	736.82		736.65	
	739.96		2+75	738.63		738.46	
	740.58		2+83.63	739.25		739.08	
	741.77		3+00	740.44		740.27	
1.50	742.47		3+09.63	741.14	12.33	740.97	
1.36	743.66		3+25	742.27	12.53	742.10	
1.60	744.33		3+33.63	742.90	12.58	742.73	
	745.55		3+50	744.12		743.95	
	747.44		3+75	746.01		745.84	
	749.35		4+00	747.92		747.75	
	751.28		4+25	749.85		749.68	
	753.21		4+50	751.78		751.61	
	755.14		4+75	753.71		753.54	
	757.14		5+00	755.71		755.54	
1.60	758.28		5+14.74	756.85	12.58	756.68	
1.49	758.89		5+25	757.57	12.52	757.40	
1.22	760.55		5+50	759.50	12.11	759.33	
1.07	761.54		5+64.74	760.64	11.66	760.47	
0.96	762.22		5+75	761.43	11.31	761.26	
0.69	763.88		6+00	763.36	10.69	763.19	
0.42	765.55		6+25	765.30	10.25	765.13	
0.16	767.26		6+50	767.27	10.04	767.10	
0.00	768.27	10.00	6+64.74	768.44	10.00	768.27	0.17
Extra Pavement = 119.4 Sq.yds.							

P.C. 8+96.95					P.T. 11+26.36		
Left					Right		
Deduct From Gr. Elev.	Edge of Pavement	Width	Station	Profile Grade	Width	Edge of Pavement	Add to L. Edge Grade
0.17	778.90	10.00	7+96.95	779.07	10.00	778.90	0.00
	779.12	10.01	8+00	779.29		779.16	0.04
	781.01	10.25	8+25	781.18		781.41	0.40
	782.85	18.82	8+50	783.02		783.60	0.75
	784.66	11.76	8+75	784.83		785.77	1.11
	786.25	12.89	8+96.95	786.42	10.00	787.67	1.42
	786.47	13.03	9+00	786.64	10.01	787.93	1.46
	788.23	13.79	9+25	788.40	11.21	790.05	1.82
	788.59	14.00	9+30.75	788.76	11.76	790.63	2.04
	789.51		9+46.95	789.68	13.28	791.64	2.13
	789.66		9+50	789.83	13.53	791.81	2.15
	790.70		9+75	790.87	15.13	792.97	2.27
	791.36		10+00	791.53	15.93	793.69	2.33
	791.53		10+11.66	791.70	16.00	793.87	2.34
	791.64		10+25	791.81	15.88	793.97	2.33
	791.53		10+50	791.70	15.04	793.80	2.27
	791.23		10+75	791.21	13.40	793.37	2.14
	791.00	14.00	10+76.36	791.17	13.28	793.13	2.13
	790.47	13.75	10+99.26	790.64	11.76	792.37	1.90
	790.16	12.94	11+00	790.33	11.06	791.95	1.79
	788.95	12.89	11+25	789.12	10.00	790.39	1.44
	788.88	11.67	11+26.36	789.05		790.30	1.42
	787.66	10.75	11+50	787.83		788.74	1.08
	786.36	10.20	11+75	786.53		787.09	0.73
	785.03	10.00	12+00	785.20		785.40	0.37
	783.70	10.00	12+25	783.87		783.72	0.02
0.17	783.63	10.00	12+26.36	783.80	10.00	783.63	0.00
Extra Pavement = 202.1 Sq. yds.							







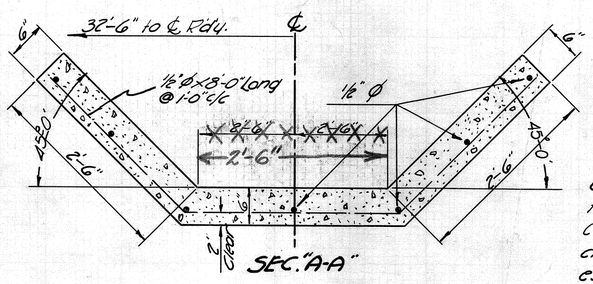


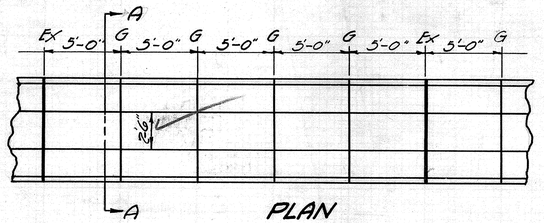
STEEL LIST

Mark	Size	No.	Shape	Length	Weight
A2a	½"ø	4	Bent	13'-0"	35.
W2a	½"ø	4	Bent	16'-6"	44.
V2a	½ø	11	Str.	5'-6"	40.
C2a	½"ø	2	Bent	7'-3"	10.
C2b	½ø	1	Bent	6'-0"	4.
C4a	⅝ø	2	Bent	5'-9"	12.
C4b	⅝ø	1	Bent	4'-6"	3.
C2c	½"ø	2	Str.	6'-9"	9.
C2d	½"ø	2	Str.	5'-0"	7.
H2a	½ø	1	Str.	8'-6"	6.
Total Weight					172.

ESTIMATED QUANTITI

Excavation	12. Cu. Y
1:3½ Concrete	6.8 Cu Y
Reinf Steel	172 Lbs.





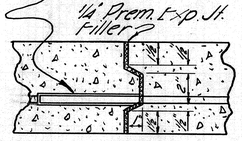
(Ex= Expansion Joint as per detail hereon)
(G = Grooved Joint made with grooving tool)

Reinforcing Steel per Lin. Ft. of Gutter = 10 Lbs.

1:3½ mix Concrete per Lin Ft. of Gutter = 0.147 Cu Yds.

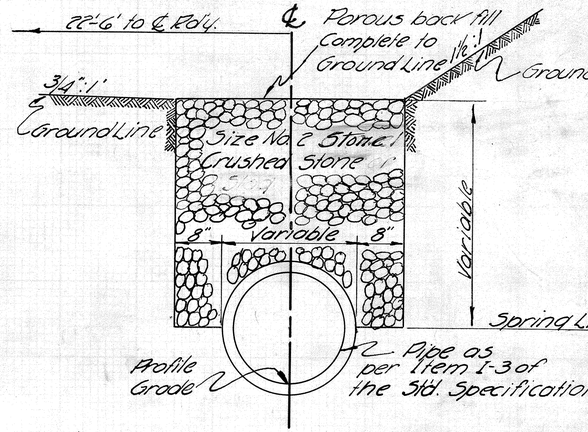
Unit price bid per Lin. Ft. for Item I-14 "Reinforced Concrete Gutter" shall include reinf. steel and necessary joints as shown hereon.

½"ø Longitudinal Reinf. Steel Lapped 1'-0", Sleeved on one end.



EXP. JOINT DETAIL (Keyed)

DETAILS
REINFORCED CONCRETE GUTTER
Item I-14



Note: The trench shall be so excavated that the bottom will conform to the shape of the pipe, which shall rest on a solid bed throughout its entire length.

Note: Where called for on these plans roadway drainage shall be encased with 5" of 1:8 mix concrete.

Note — 612 Lin. Ft. Porous Backfill; "See sheets

DETAIL
ROADWAY DRAINAGE
Item I-3

SUMMARY of QUANTITIES

U. S. PUBLIC WORKS PROJECT NO.

Fed. Rd. District	STATE	Fed. Aid Project
10	OHIO	NBH 373-C

VINTON COU
S.H. No. 336 Sec. L

STRUCTURES 20' SPAN & UNDER

ITEM NUMBER	STATION	TYPE	SIZE	LENGTH	EXC. CU.YDS.	CUBIC YDS. of CONCRETE 1:5½ MIX	1:6½ MIX	1:8 MIX	REINF. STEEL	V.S.P. (A) ENC. LIN. FT. 6"	15"	18"	24"	C.I. PIPE LIN. FT. 24"	30"	REMOVAL & DISPOSAL OF EXIST. CULVERT	STD. CATCH BASINS No. 22	No. 23	HAND LAID R.P. & HDWL. SQ. YDS.	DOWELS ¾"ø x 18"	DETOUR & TEMP. RUN AROUND COMP.	DETAILS ON SHEET	REMARKS
1-C	37+65	BOADWAY CULVERT	24"	60'	40.								60.						2.3			53	
2-C	43+85.5	BOADWAY CULVERT	24"	78'	105.								78.						2.3			53	
3-C	54+21	STD. CAST IRON PIPE	24"	54'	24.									54.					2.3			54	
4-C	58+11	STD. CAST IRON PIPE	24"	54'	31.									54.					2.3			54	
5-C	61+80	STD. CAST IRON PIPE	24"	56'	43.									56.					2.3			54	
6-C	64+39	BOADWAY CULVERT	15"	56'	40.						56.								2.3			54	
7-C	71+88	STD. SLAB TOP CULV.	9'x8'	80'	530.	114.0	49.5		7028.												LUMP	55	
8-C	32+60	STD. CONC. BOX	6'x4'	57'	85.	45.0			4209.													56	
9-C	37+73	BOADWAY CULVERT	15"	60'	30.						60.								2.0			59	
10-C	100+05	BOADWAY CULVERT	15"	64'	30.						64.								2.0			56	
11-C	103+27	BOADWAY CULVERT	15"	64'	32.						64.								2.0			56	
12-C	118+33	BOADWAY CULVERT	6"	60'	10.	0.5				60.									1.0			57	
13-C	119+50	BOADWAY CULVERT	15"	76'	4.						76.								2.0			57	
14-C	122+28	BOADWAY CULVERT	18"	68'	4.							68.							2.0			57	
15-C	129+20	BOADWAY CULVERT	15"	32'	7						52.								2.0			57	
16-C	132+50	STD. CAST IRON PIPE	24"	60'	3.									60.					2.3			58	
17-C	140+00	STD. CONCRETE BOX	5'x3'	60'	39.	40.0			3405.													58	
18-C	145+00	STD. CAST IRON PIPE	30"	88'	3										88.				3.0			58	
19-C	153+10	BOADWAY CULVERT	15"	62'	11.						62.					LUMP			2.3			59	
20-C	170+35	BOADWAY CULVERT	24"	28'	11.			0.5					28.			LUMP			2.7	8.		60	18'E.B. 6'L.E. EXT.
21-C	176+45	BOADWAY CULVERT	18"	30'	14			0.5				30.				LUMP			2.0	8.		60	16'E.B. 14'L. EXT.
22-C	185+55	BOADWAY CULVERT	18"	22'	8.			0.5				22.				LUMP			2.0	8.		60	14'E.B. 8'L. EXT.
23-C	196+39	BOADWAY CULVERT	18"	32'	6.			0.5				32.				LUMP			2.0	8.		60	16'E.B. 16'L. EXT.
24-C	201+81	SPECIAL CONC. BOX CULV.	12'x5'	57'-6"	60.	73.5			11,900.							LUMP			10.0		LUMP	61	
TOTALS SEC. "B", "B-2".					1170.	2730	94.5	2.0	26592.	60.	434.	152.	166.	224.	88.	LUMP			55.1	32.	LUMP		
1-C	14+27.5	BOADWAY CULVERT	18"	26'	3.	1.7			40.			26.							1.0			62	10' SPECIAL HDWL. R.E. 6'L. EXT.
2-C	19+50	BOADWAY CULVERT	15"	50'	23.	1.3			24		50.						1.					62	STD. No. 22 C.B. on R.
3-C	23+75	BOADWAY CULVERT	15"	50'	28.	1.9			24		50							1.				62	STD. No. 23 C.B. on R.
TOTALS SEC. "H"					66.	5.3			88		100.	26.					1.	1.	1.0				
GRAND TOTALS OF ALL SECTIONS					1236.	2785	94.5	2.0	26630	60.	534.	178.	166.	224.	88.	LUMP	1.	1.	56.1	32.	LUMP		

LINE DATA

BEGINNING OF PROJECT STA. 34+10 } SEC. "B1" & "B-2"
END OF SECTION "B-2" STA. 202+18 }
GROSS LENGTH OF PROJECT 16,808.0
BEGINNING OF SEC. "H" STA. 0+00
END OF PROJECT (END SEC. "H")
NET LENGTH OF SEC "H" 2,600. LIN FT.
ADDITIONS
LONG STATION — STA 12+50 TO 13+00 = 53.77 LIN FT.
NET LENGTH OF SEC. "H" 2,60
NET LENGTH OF PROJECT 3.676 MILES 19,41

FINISHING SHOULDERS, SLOPES & DITCHES

NET LENGTH FINISHING SHOULDERS, SLOPES & DITCHES 19,4

Note: Extra Pavement on Sec. "H" Sheet No. 21A

Sta 0+0	to	Sta 6+64.74	152.0 Sq. Yds.
Sta 7+96.95	to	Sta 12+26.36	169.6 Sq. Yds.
		Total	321.6 Sq. Yds.

GENERAL SUMMARY

	BOADWAY	
E-1	BOADWAY EXCAVATION (UNCLASSIFIED)	40,70
E-2	STRUCTURE EXCAVATION (UNCLASSIFIED)	1
E-4	BORROW (CONTRACTOR TO FURNISH)	3,73
E-5	FINISHING SHOULDERS, SLOPES & DITCHES (both sides)	19,41
E-9	REMOVAL & DISPOSAL TREES	17
E-10	CUTTING EXISTING PAVEMENT OR BASE EDGE	22,22
I-1	12" CORR. M. PIPE (PAVED INVERT) FOR DRIVEWAYS	34
I-1	15" CORR. M. PIPE (PAVED INVERT) FOR DRIVEWAYS	10
I-2	24" K&P STORM SEWER	3
I-3	15" K&P BOADWAY DRAINAGE	19
I-3	21" K&P BOADWAY DRAINAGE	42
I-3	36" CORR. M.P. PIPE (PAVED INVERT) FOR V.S.P(A) ENC. Rdwy. Drainage	23
I-3	36" CAST IRON PIPE BOADWAY DRAINAGE	2
S-1	CONCRETE (1:8 MIX)	6
S-1	CONCRETE (1:5½ MIX)	6
I-7	TRENCH REINFORCING STEEL	17
I-9	No. 2 UNDERDRAIN	36
I-14	SPECIAL CONCRETE GUTTER	4
I-17	AGGREGATE TRAFFIC BOUND SIDE APPROACHES	29
M-10	CALCIUM CHLORIDE FOR TRAFFIC LANES	400
T-10	Aggregate FOR TRAFFIC LANES	800
	PAVEMENT - TABLE No. 1, ITEM T-3	
B-20	6" W.B. MACADAM BASE COURSE	9,03
B-20	9½" W.B. MACADAM BASE COURSE (FIRST)	13,36
B-20	4½" W.B. MACADAM BASE COURSE (SECOND)	13,36
B-32	AGGR. BIT. MACADAM LEVELING COURSE (ROAD MIX)	387
B-32	BIT. MAT. " " " " " "	12,29
B-33	BIT. MACADAM BASE COURSE - PENETRATION	11,56
T-30	BIT. PRIME COAT	6,77
T-32	AGGR. BIT. MACADAM SURFACE COURSE (RD. MIX)	2444
T-32	AGGR. BIT. MACADAM SURFACE COURSE (INTERMEDIATE COAT)	253
T-32	AGGR. BIT. MACADAM SURFACE COURSE (FINAL COVER)	289
T-32	BIT. MAT. BIT. MACADAM SURFACE COURSE (ROAD MIX)	30,42
T-32	" " " " " " (INTERMEDIATE SEAL)	10,86
T-32	" " " " " " (FINAL SEAL)	10,86
	(See Sheet No. 65)	
	STRUCTURES UNDER 20' SPAN.	
E-2	EXCAVATION FOR STRUCTURE (UNCLASSIFIED)	1,23
S-1	CONCRETE (1-6½ MIX)	44
S-1	CONCRETE (1-5½ MIX)	278
S-1	CONCRETE (1-8 MIX)	2
S-4	REINFORCING STEEL	26,63
S-15	TEMPORARY REINFORCED BRIDGES & APPR.	LUMP
S-22	REMOVAL OF EXISTING MASONRY	LUMP
S-23	DOWEL & DOWEL HOLES	32
S-27	6" V.S.P.(A) ENCASED FOR BDY. CULVERT	6
S-27	15" " " " " " " " "	53
S-27	18" " " " " " " " "	17
S-27	24" " " " " " " " "	166
S-27	24" CAST I. PIPE " " "	22
S-27	30" " " " " " " " "	8
I-10	HAND LAID RIP RAP	56
I-8	No. 22 CATCH BASIN	
I-8	No. 23 CATCH BASIN	

SUMMARY of PAVING QUANTITES

FROM STATION	TO STATION	ITEM B-20 6" Base Sq. Yds.	ITEM B-33 3" Pent. Sq. Yds.	ITEM B-20 4½" Base Sq. Yds.	ITEM B-20 4½" Base Sq. Yds.	ITEM T-32 1½" M.S. Sq. Yds.	ITEM B-32 AGGR. #4 or #4 Cu. Yds.	BIT. MAT. M-5.13 M.T. Gal.	ROAD MIX T-32 AGGR. #4 M-3.1 or M-3.5 Cu. Yds.	BIT. MAT. M-5.13 M.T. Gal.	SEAL COATS INTERMEDIATE SEAL AGGR. #6 M-3.1 or M-3.5 Cu. Yds.	BIT. MAT. M-5.12, H.T. Gal.	FINAL SEAL AGGR. #6 M-3.1 or M-3.5 Cu. Yds.	BIT. MAT. M-5.13 M.T. Gal.	ITEM T-30 PRIME COAT BIT. MAT M-5.9, C.T. Gal.
34+10	46+00	7745	1038.9			2694.4	105.7	1315.4	198.7	1851.1	15.4	66.1	17.6	66.1	1,526.9
46+00	78+25				7,525.0	7,525.0	7,166.7		403.1	5016.7	41.8	1,791.7	47.8	1,791.7	2,633.8
78+25	109+75	2,410.5	3,110.5			7,000.0	280.0	3484.5	393.7	4900.0	40.8	1,750.0	46.7	1,750.0	
109+75	160+50				11,841.7	11,841.7	11,277.8		634.9	7834.5	65.8	2,819.4	75.2	2,819.4	4,144.6
160+50	202+18	4,907.0	5,333.2			9,262.2	370.5	4610.7	521.0	6483.5	54.0	2,315.5	61.7	2,315.5	
0+00	26+00	1,996.6	2,079.0			6,107.8	231.9	2879.7	343.5	4275.5	35.6	1,526.9	40.7	1,526.9	
TOTALS		9,038.6	11,561.6	19,366.7	19,366.7	43,458.9	987.6	12,290.3	2444.4	30421.3	253.4	10,864.6	289.7	10,864.6	6,778.4

EXCAVATION & EMBANKMENT

FROM STATION	TO STATION	EXC. CU.YDS.	EMB. CU.YDS.	EMB. + 20% CU.YDS.	BORROW CU.YDS.
34+10	52+525	2,196.	1842.	2210.	14.
52+525	66+1225	2,588.	2157.	2588.	
66+1225	76+0883	13686.	11905.	13,686.	
76+0883	115+2890	9482.	7735.	9482.	
115+2890	125+1328	4843.	4041.	4843.	
125+1328	140+2040	3,148.	2623.	3148.	
140+2040	143+8646	3656.	3047.	3656.	
143+8646	160+1180	3,557.	2964.	3,557.	
160+1180	170+00	218.	557.	669.	451.
170+00	180+00	220.	697.	836.	616.
180+00	186+50	172.	402.	482.	310.
186+50	196+2057	618.	515.	618.	
196+2057	202+18	205.	497.	597.	392.
0+00	26+00	1,111.	2549.	3059.	1,948.
	TOTALS	40,706.	37031.	44437	3,731.

P.C. D.C. & P.O. APPR.

SHEET No.	12" P.C. & P.O. APPR. (Less Flares)	15"	LIN. FT. 15"	AGGR. CU. YDS.
5				5.
6	60.			15.
7	60.			26.
8	80.	40.		27.
9	90.			10.
10	90.	60.		33.
11	120.			30.
12	80.			30.
13	160.			20.
14	180.			25.
15	20.			10.
16	100.			30.
17				5.
18				25.
19				5.
TOTAL	940.	100.		296.

B.D.T. DRAINAGE COMPLETELY BACKFILLED WITH STONE

SHEET NUMBER	PIPE LIN. FT. 15"	21"	ENC. 1:8 CONC. LIN. FT.	CU. YDS.
18	190.	337.	94.	6.7
19		85.		
TOTAL	190.	422.	94.	6.7

STORM SEWER

SHEET NUMBER	24" PIPE LIN. FT.	1:5½ CONC. CU. YDS.	REINF. STEEL LBS.	EXC. CU. YDS.
19	38.	6.8	172.	12.
TOTAL	38.	6.8	172.	12.

CUTTING OF EXISTING PAV'T OR BASE EDGE
22,224 LIN. FT. ITEM-E 10.03

TABLE No. 1

—: COMPUTATIONS :—

BIT. MACADAM — ROAD MIX — FOR M-3.1 OR M-3.5 AGGREGATES

PRIME COAT
7,525.0 x .35 = 2,633.8
11,841.7 x .35 = 4,144.6
6,778.4 GAL.

ROAD MIX
2,694.4 x 135 ÷ 2400 = 148.7
7,166.7 x 135 ÷ 2400 = 403.1
7,000.0 x 135 ÷ 2400 = 393.7
11,277.8 x 135 ÷ 2400 = 634.9
9,262.2 x 135 ÷ 2400 = 521.0
6,107.8 x 135 ÷ 2400 = 343.5
2,444.4 Cu. Yds.

ROAD MIX
2,694.4 x .70 = 1851.1
7,166.7 x .70 = 5016.7
7,000.0 x .70 = 4900.0
11,277.8 x .70 = 7834.5
9,262.2 x .70 = 6483.5
6,107.8 x .70 = 4275.5
30421.3 Gal.

SEAL COAT
2,694.4 x 14 ÷ 2400 = 15.4
7,166.7 x 14 ÷ 2400 = 41.8
7,000.0 x 14 ÷ 2400 = 40.8
11,277.8 x 14 ÷ 2400 = 65.8
9,262.2 x 14 ÷ 2400 = 54.0
6,107.8 x 14 ÷ 2400 = 35.6
253.4 Cu. Yds.

SEAL COAT CONT.
2,694.4 x .25 = 661.1
7,166.7 x .25 = 1,791.7
7,000.0 x .25 = 1,750.0
11,277.8 x .25 = 2,819.4
9,262.2 x .25 = 2,315.5
6,107.8 x .25 = 1,526.9
10,864.6 GAL.

FINAL SEAL
2,694.4 x .25 = 661.1
7,166.7 x .25 = 1,791.7
7,000.0 x .25 = 1,750.0
11,277.8 x .25 = 2,819.4
9,262.2 x .25 = 2,315.5
6,107.8 x .25 = 1,526.9
10,864.6 GAL.

FINAL SEAL CONT.
2,694.4 x 16 ÷ 2400 = 17.6
7,166.7 x 16 ÷ 2400 = 47.8
7,000.0 x 16 ÷ 2400 = 46.7
11,277.8 x 16 ÷ 2400 = 75.2
9,262.2 x 16 ÷ 2400 = 61.7
6,107.8 16 ÷ 2400 = 40.7
289.7 Cu. Yds.

B.D.T. DRAINAGE

SHEET NUMBER	CONC. GUTTER 1:5½ MIX LIN. FT.	36" CORR. M.P. or V.S.P.(A) ENC. LIN. FT.	36" CAST I. PIPE LIN. FT.
19	899.	234.	24.
TOTAL	899.	234.	24.

TREES TO BE REMOVED

SHEET No.	No. TREES
6	2.
7	8.
12	2.
13	1.
15	4.
TOTAL	17.

STD. No. 2 DRAINS OR DRAIN CHANNELS

STATION	SIDE	LIN. FT.
48+50	L & R.	12
57+00	L & R.	12
92+50	L & R.	12
135+50	L & R.	12
171+50	L & R.	12
177+00	L & R.	12
181+00	L & R.	12
201+75	L & R.	12
TOTAL		96

B-32

CU. YDS.	LBS.	÷ 135	x .70
105.7	253,680	1879.1	1315.4
280.0	672,000	4977.8	3484.5
370.5	889,200	6586.7	4610.7
231.4	555,360	4115.8	2879.7
987.6	Total	Gal. =	12,290.3

CALCIUM CHLORIDE APPLIED AS ENGE. DIRECTS 4,000 LBS.
BUILDING UNDER TRAFFIC INCLUDING CONSTRUTING & MAINTAINING TRAFFIC LANES, NECESSARY GUARDS & SIGNALMEN & EXTRA COST TO CONTRACTOR FOR BUILDING UNDER TRAFFIC BUT NO T.O. MATERIAL FOR DETOUR LANES — LUMP SUM
Aggregate (Spec. Item T.10) FOR DETOUR LANES. 800 Cu. Yds.
SEE TRAFFIC NOTE PAGE 3

FED. RD. DIST. NO.	STATE	FED. AID PROJ. NO.	FISCA YEA
10	OHIO	N.R.H.573-C	193

VINTON COUNTY
S.H. 396 SEC. B-1, B-2 &

SUMMARY OF QUANTITIES

FOR PAVEMENT ALTERNATE

TABLE Nº 2
COMPUTATIONS
BITUMINOUS MACADAM - ROAD MIX - FOR M-3.6 AGGREGATES

PRIME COAT, M-5.14 C.T.
Same as for M-3.1 or M-3.5, Table 1.

ROAD MIX, BIT. MAT., M-5.13 M.T.
2644.4 x .94 = 2485.7
7166.7 x .94 = 6736.7
7000.0 x .94 = 6580.0
11277.8 x .94 = 10601.1
9262.2 x .94 = 8706.5
6107.8 x .94 = 5741.3
Total 40851.3 gal.

INTERMEDIATE SEAL, BIT. MAT., M-5.12 H.T.
Same as for M-3.1 or M-3.5, Table 1.

FINAL SEAL, BIT. MAT., M-5.13 M.T.
Same as for M-3.1 or M-3.5, Table 1.

ROAD MIX AGG. Nº 4
2644.4 x 110 ÷ 2000 = 145.4
7166.7 x 110 ÷ 2000 = 394.2
7000.0 x 110 ÷ 2000 = 385.0
11277.8 x 110 ÷ 2000 = 620.3
9262.2 x 110 ÷ 2000 = 509.4
6107.8 x 110 ÷ 2000 = 335.9
Total = 2390.2 C.Y.

INTERMED. COVER AGG. Nº 6
2644.4 x 11 ÷ 2000 = 14.5
7166.7 x 11 ÷ 2000 = 39.4
7000.0 x 11 ÷ 2000 = 38.5
11277.8 x 11 ÷ 2000 = 62.0
9262.2 x 11 ÷ 2000 = 50.9
6107.8 x 11 ÷ 2000 = 33.6
Total = 238.9 C.Y.

FINAL COVER AGG. Nº 6
2644.4 x 14 ÷ 2000 = 18.5
7166.7 x 14 ÷ 2000 = 50.2
7000.0 x 14 ÷ 2000 = 49.0
11277.8 x 14 ÷ 2000 = 78.9
9262.2 x 14 ÷ 2000 = 64.8
6107.8 x 14 ÷ 2000 = 42.7
Total = 304.1 C.Y.

SUMMARY OF PAVING QUANTITIES

STATION FROM	STATION TO	ITEM B-20 6" BASE SQ. YDS.	ITEM B-33 3" PENET. SQ. YDS.	ITEM B-20 4½" BASE SQ. YDS.	ITEM B-20 4½" BASE SQ. YDS.	ITEM T-32 11" W. S. SQ. YDS.	ITEM B-32 AGGREG. Nº 4 or 34 CU. YDS.	ITEM B-32 BIT. MAT. M-5.13 M.T GAL.	ROAD MIX T-32 AGGR. #4 M-3.6 CU. YDS.	ROAD MIX T-32 BIT. MAT. M-5.13 M.T. GAL.	SEAL COATS T-32 INTERMEDIATE AGGR #6 M-3.6 CU. YDS.	SEAL COATS T-32 INTERMEDIATE BIT. MAT. M-5.12 H.T. GAL.	SEAL COATS T-32 FINAL AGGR. #6 M-3.6 CU. YDS.	SEAL COATS T-32 FINAL BIT. MAT. M-5.13 M.T. GAL.	PRIME COAT ITEM T-30 BIT. MAT. M-5.14 C.T. GAL.
34+10	46+00	774.5	1038.9			2644.4	103.3	1766.4	145.4	2485.7	14.5	661.1	18.5	661.1	
46+00	78+25			7525.0	7525.0	7166.7			394.2	6736.7	39.4	1791.7	50.2	1791.7	2633.8
78+25	109+75	2410.5	3110.5			7000.0	273.8	4679.1	385.0	6580.0	38.5	1750.0	49.0	1750.0	
109+75	160+50			11,841.7	11,841.7	11,277.8			620.3	10601.1	62.0	2819.4	78.9	2819.4	4144.6
160+50	202+18	4407.0	5333.2			9262.2	362.3	6191.5	509.4	8706.5	50.9	2315.5	64.8	2315.5	
0+00	26+00	1446.6	2079.0			6107.8	226.2	3867.0	335.9	5741.3	33.6	1526.9	42.7	1526.9	
TOTAL		9038.6	11,561.6	19,366.7	19,366.7	43458.9	965.6	16504.0	2390.2	40851.3	238.9	10864.6	304.1	10864.6	6778.4

GENERAL SUMMARY - CONTINUED

ITEM	PAVEMENT - TABLE 2 - ITEM T-32	AMOUNT	UNIT
B-20	6" W.B. Macadam Base Course	9038.6	Sq. Yds.
B-20	4½" W.B. Macadam First Base Course	19366.7	Sq. Yds.
B-20	4½" W.B. Macadam Second Base Course	19366.7	Sq. Yds.
T-30	Bit. Prime Coat M-5.14 C.T.	6779.0	Gal.
B-33	Bituminous Macadam Base Course - Penetration.	11561.6	Sq. Yds.
B-32	Bituminous Macadam - Road Mix Leveling Course - Aggr. M-3.6	965.6	Cu. Yds.
B-32	Bituminous Macadam - Road Mix Leveling Course - B.M., M-5.13 M.T.	16504.0	Gal.
T-32	Bituminous Macadam - Road Mix Surface Course - Aggr. Nº4, M-3.6	2390.2	Cu. Yds.
T-32	Bituminous Macadam - Road Mix Intermed. Cover - Aggr. Nº6, M-3.6	238.9	Cu. Yds.
T-32	Bituminous Macadam - Road Mix Final Cover - Aggregate Nº6, M-3.6	304.1	Cu. Yds.
T-32	Bituminous Macadam - Road Mix - Bituminous Material - M-5.13 M.T	40851.0	Gal.
T-32	Bituminous Macadam - Road Mix Intermed. Seal - Bit. Mat. M-5.12 H.T.	10865.0	Gal.
T-32	Bituminous Macadam - Road Mix Final Seal - Bit. Mat. M-5.13 M.T.	10865.0	Gal.