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FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	STATE	

1/18

ALLEN COUNTY
ALL-117-24.37

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
ALL-117-24.37
ALLEN COUNTY
AUGLAIZE TOWNSHIP

DESIGN DESIGNATION

Current A.D.T. (1970)	2310
Design A.D.T. (1990)	3810
D.H.V.	460
D.	60%
T.	10%
V.	60 M.P.H.

CONVENTIONAL SIGNS

County Line
Township Line
Section Line
Center Line
Corporation Line
Property Line
Fence Line
Guard Rail (Existing)
Guard Rail (Proposed)
Railroad
Power Poles
Telephone Poles
Trees and Stumps (Existing)
Trees and Stumps (To be removed)
Right-of-Way — RW

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LOCATION MAP

Portion to be improved
State Highways
Other Roads

LINE DATA

Begin Project	Sta. 1284+75
End Project	Sta. 1292+50
Net Length of Project =	775 Lin. Ft. or 0.146 Mile
Begin Work	Sta. 1283+00
End Work	Sta. 1293+75
Net Length of Work =	1075 Lin. Ft. or 0.203 Mile

SCALE

Plan
Profile (Horizontal) — 0 50 100
Profile (Vertical) — 0 5 10
Cross Sections

1971 SPECIFICATIONS

The standard specifications of the State of Ohio, Department of Highways, including changes and supplemental specifications listed in the proposal shall govern this improvement.

The right-of-way for this improvement will be provided by the State of Ohio.

I hereby approve these plans and declare that the making of this improvement will not require the closing to traffic of the highway and that provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates.

Approved _____
Date 8-6-70 Division Deputy Director

Approved C. N. Alfrata
Date 12-1-70 Engineer of Bridges

Approved R. E. Gatlin
Date 12-30-70 Engineer of Location and Design

Approved George J. Thomas
Date 12-30-70 Deputy Director of Design and Construction

Approved T. H. Bowers
Date 1-7-71 Deputy Director of Right of Way

Approved Thomas W. Mason
Date 1-12-71 Deputy Director of Planning and Programming

Approved _____
Date _____ First Assistant Director

Approved _____
Date 1-14-71 Director of Highways

STANDARD DRAWING					
BP-6	6-1-65	GR-2B	1-1-71	GR-3	1-1-71
MC-3	6-20-69	BP-3	1-1-71	GR-4	1-1-71
MC-4	6-13-69	BP-5	1-1-71	L-1	6-1-65
CB 2.2-A & B	6-1-65	GR-2A	1-1-71		
HW-4	1-1-70	CS-1-65 SH1	6-1-65		
AS-1-67	6-12-69	A-1-54	11-8-65		

SUPPLEMENTAL SPECIFICATIONS	
1001	1-1-69
808	1-1-71
836	1-1-71

File No.	Allen County	ALL-117-24.37
	Date of Letting	19
	Contract No.	

Computations By _____ Date _____
Computations Checked By _____
Initials _____ Date 7-5-70

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PROCUREMENT
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FED. RD. DIVISION	STATE	PROJECT	
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ALLEN COUNTY
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TYPICAL SECTION

TYPE 404 ON 301

Typical Section left applies: Sta. 1284+75 to Sta. 1292+50

Note – Aggregate Drain, 4:1 and 3:1 slopes with 18" minimum ditch, details apply either side.

1. Item 404 1" Asphalt Concrete (70-85).
2. Item 402 1½" Asphalt Concrete (70-85).
3. Item 301 6" Bituminous Aggregate Base, 702.01 (85-100) or 702.09 RT-11 or RT-12
4. Item 304 Aggregate Base.
5. Item 409 Seal Coat, using 0.008 cu.yd. No. 8 Cover Aggregate per sq.yd. and 0.30 gal. Bituminous Material per sq.yd. 702.09 RT-9 or RT-10, or 702.02 MC-800 or MC-3000.
6. Item 408 Bituminous Prime Coat, 702.09 RT-2 or RT-3 applied at the rate of 0.4 gal. per sq.yd.
7. Item 659 Seeding and Mulching, as per plan.
8. Item 605 Aggregate Drains where called for (See General Notes).

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Initials JCM Date 7/5/70

GENERAL NOTES

ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS ~ The rounded corners shown on the typical sections, apply to all cross sections even though otherwise shown on these plans.

619 FIELD OFFICE ~ The Contractor shall provide a minimum of 150 sq. ft. of floor space for the field office, and in addition to the requirements of Item 619 shall provide and maintain sanitary provisions as per 107.06.
All the above is included in the lump sum price bid for Item 619 Field Office.

UTILITIES ADJUSTMENT ~ Any or all work required for removing, relocating and constructing of new facilities for Public or Private Utilities will be done by and at the expense of their respective owners.

ELEVATION DATUM ~ All elevations refer to USGS Datum.

CONSTRUCTION LAYOUT STAKES ~ See note in the proposal describing the work included in this lump sum pay item.

LOCATION OF GUARD RAIL ~ The locations of Guard Rail runs as shown on these plans are subject to adjustment to assure that the planned installations will afford maximum protection for traffic.

CONNECTIONS TO EXISTING PIPE ~ At places where the plans provide for proposed pipe to be connected to existing pipe, it shall be the responsibility of the contractor to locate the existing pipe both as to line and grade before he starts to lay the proposed pipe. The cost of this operation shall be included in the unit price bid of the pertinent 603 Conduit item.

ITEM 605 AGGREGATE DRAINS ~ Aggregate drains shall be placed at fifty (50) foot intervals on each side of normal crowned sections. Aggregate drains shall be placed prior to completion of 4' stabilized shoulders.

FARM DRAINS ~ All farm drains which are encountered during construction shall be provided with unobstructed outlets under the direction of the Engineer. Existing collectors and isolated farm drains which are encountered above the elevation of the roadway ditches shall be outletted into the roadway ditch by 603 Type F conduit. The optimum outlet elevation shall be if possible one (1) foot above the flow line elevation of the ditch. Existing collectors which are located below the roadway ditch elevations and which cross the roadway shall be replaced within the right-of-way limits by Item 603 Type B conduit one commercial size larger than the existing conduit, unless otherwise shown on the plans.
The location, type, size and grade of the required replacements shall be determined by the Engineer during the construction and payment shall be made on final measurements.

Item 603 6" Type F Conduit, 10 Lin. Ft.
Item 603 6" Type E Conduit, 40 Lin. Ft.
Item 603 8" Type E Conduit, 40 Lin. Ft.
Item 603 12" Type E Conduit, 40 Lin. Ft.
Item 603 6" Type B Conduit, 50 Lin. Ft.
Item 603 8" Type B Conduit, 50 Lin. Ft.

All necessary bends and branches shall be included for payment in the pertinent conduit item. None of the above materials shall be ordered by the contractor until requested by the Engineer.

SEEDING FORMULA ~ The following seed mixtures shall in lieu of the mixtures listed in 659.09 be used within the limits of this project.

60% Kentucky Blue Grass
25% Penn Lawn Fescue
15% Red Top

Any stone or other debris 2" or over in diameter shall be removed from the exposed surface of the seed bed.

REMOVAL OF EXISTING PIPE ~ The removal of all existing pipe drains which would normally be removed in various excavation items shall be included for payment in the unit price bid for the respective excavation items, unless otherwise itemized in the plans.

DRIVEWAYS ~ All driveways shown on these plans, except where indicated otherwise, shall be Type I Standard Drawing BP-6 modified by deleting the 12" offset at the edge of pavement.
Pavement thickness shall be 6" of 304.

TRAFFIC MAINTENANCE ~ Two way traffic shall be maintained at all times by use of the existing pavement, the proposed pavement and temporary road as shown on the plans. Estimated quantities of 30 Cu. Yd. 410 Traffic Compacted Surface, Type A or B and 0.50 Ton 616 Calcium Chloride to be used in accordance with 104.04 and as directed by the Engineer, have been carried to the General Summary.

SEEDING ~ Quantities for seeding are calculated for the soil areas between lines ten (10) feet outside the work limits, as shown on the cross sections, or to the right-of-way line if such line is less than ten (10) feet from the work limits.

MODIFICATION OF CATCH BASINS ~ All catch basins designated (Modified) or (Mod.) shall be modified by being constructed with a 12" minimum sump. The unit price bid for each catch basin shall include a 12" sump.

TREES AND STUMPS REMOVED ~ All trees and stumps specifically marked for removal within the construction limits of this project shall be removed under the lump sum price bid for Item 201 Clearing and Grubbing, except that those trees for which protection and preservation work is indicated elsewhere in these plans shall not be removed. The following is an approximate estimate of the number of trees and stumps to be removed.

SIZES	TREES	STUMPS
18"	4	0
30"	0	0
48"	1	0

The above esitmate is approx. and the State of Ohio reserves the right to order the removal of additional trees and stumps outside of the limits of construction but within the right-of-way and/or easement lines. Payment for the removal of these additional trees or stumps shall be included in the lump sum price bid for Item 201 Clearing and Grubbing.

GUARDRAIL TERMINAL SECTION ~ Where indicated on the plan, guardrail shall be terminated by using a Terminal Section. This shall consist of bolting a Standard Terminal as detailed on Standard Drawing GR-2A to the rail element at the last post. Also the three end posts of each Terminal Section shall be encased in a minimum 4-inch thickness of Class C Concrete for the full depth of the post below the ground line. Payment for the Terminal Section shall be included in the unit price bid for Item 606 Guardrail Type 5.

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MAR 16 1998 CHARGE 117003

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ALL-117-24.37

PAVEMENT COMPUTATIONS

Station From	Station To	Lin. Ft.	203 Subgrade Compaction Sq. Yd.	301 6" Bituminous Aggregate Base Cu. Yd.	304 8" Aggregate Base Cu. Yd.	304 4" Aggregate Base Cu. Yd.	402 1½" Asphalt Concrete Cu. Yd.	404 1" Asphalt Concrete Cu. Yd.	408 Bituminous Prime Coat Gal.	409 Seal Coat Bituminous Material Gal.	409 Seal Coat Cover Aggregate #8 Cu. Yd.	611 Reinforced Concrete Approx. Slab T=13" Sq. Yd.
•1283+00.00	1284+75.00	175.00	428	74.54	31.52	51.85	17.82	11.88	62	47	1.24	
1284+75.00	1287+88.67	313.67	836	145.22	56.50	100.68	34.85	23.23	112	84	2.23	
1287+88.67	1288+13.67	25.00	64		4.84	*11.80			9	7	.18	66.67
1288+13.67	1289+06.33	92.66	Bridge Limits									
1289+06.33	1289+31.33	25.00	64		4.84	*11.80			9	7	.18	66.67
1289+31.33	1292+50.00	318.67	850	147.53	57.40	102.29	35.41	23.61	113	85	2.27	
•1292+50.00	1293+75.00	125.00	306	53.24	22.51	37.04	12.73	8.49	44	33	0.89	
Intersection I-P			221		41.60		9.20	6.10	88			
Totals		1075.00	2769	420.53	219.21	315.46	110.01	73.31	437	263	6.99	133.34

* 6" Aggregate Base

MISCELLANEOUS COMPUTATIONS

605 Aggregate Drains (Est. 50' Intervals in normal Pavement).
Average Length =
Plan and Profile - 14 Lin. Ft.
Quantity
Plan and Profile
(1050+1050) ÷ 50 x 14 = 568 Lin. Ft.
Total 605 Aggregate Drains = 568 Lin. Ft.

659 Seeding and Mulching
From Seeding Table 7048 Sq. Yd.
Deduct 660 Sodding 32 Sq. Yd.
Net Seeding and Mulching = 7016 Sq. Yd.

659 Commercial Fertilizer
Net Seeding and Mulching 7016 Sq. Yd.
Add 660 Sodding 32 Sq. Yd.
Net Seeding and Sodding 7048 Sq. Yd.
Quantity = 7048 x 9 x 20 ÷ 1000 ÷ 2000 = 0.63 Tons

410 Traffic Compacted Surface, Type A or B 30 Cu. Yd.

616 Calcium Chloride estimated for Maintaining Traffic 0.50 Ton

• Quantities in transition details to be non-performed provided the widening has been completed on a previous construction contract.

-659- SEEDING & MULCHING

Sheet No.	Seeding & Mulching Sq. Yd.
7	1442
8	3014
9	253
10	2339
Total	7048

EARTHWORK- 203

Sheet No.	Excavation Cu. Yd.	Embankment Cu. Yd.
5	1177	2304
Totals	1177	2304

DETAIL OF SODDING AT CATCH BASINS

Area - 16 Sq. Yd.

TYPE I DRIVEWAY

GENERAL SUMMARY

ITEM	SHEET NO. 3	4	5	6	TOTAL	UNIT	DESCRIPTION
							ROADWAY
201	Lump				Lump	Lump	Clearing and Grubbing
202				104	104	Lin. Ft.	Pipe Removed, 24" and Under
202				3	3	Each	Catch Basin Abandoned
203			1177		1177	Cu. Yd.	Excavation not including Embankment Construction
203			2304		2304	Cu. Yd.	Embankment
203		2769			2769	Sq. Yd.	Subgrade Compaction
410		30			30	Cu. Yd.	Traffic Compacted Surface, Type A or B
606				452.18	452.18	Lin. Ft.	Guard Rail, Type 5
606				3	3	Each	Anchor Assembly
606				4	4	Each	Bridge Terminal Assembly, Type B
615			2267		2267	Sq. Yd.	Temporary Pavement, Class A
615			Lump		Lump	Lump	Temporary Roads
616		0.50			0.50	Ton	Calcium Chloride
							EROSION CONTROL
601				26	26	Cu. Yd.	Rock Channel Protection, Type B
659		7016			7016	Sq. Yd.	Seeding and Mulching, as per plan
659		0.63			0.63	Ton	Commercial Fertilizer (12-12-12)
660				32	32	Sq. Yd.	Sodding
							DRAINAGE
602				0.9	0.9	Cu. Yd.	Concrete Masonry
603				62	62	Lin. Ft.	24" Conduit, Type A, 706.02 or 706.08
603	50				50	Lin. Ft.	6" Conduit, Type B
603	50				50	Lin. Ft.	8" Conduit, Type B
603				28	28	Lin. Ft.	12" Conduit, Type D, 707.01, 14 Gage
603	40			22	62	Lin. Ft.	6" Conduit, Type E
603	40			60	100	Lin. Ft.	8" Conduit, Type E
603				418	418	Lin. Ft.	10" Conduit, Type E
603	40			24	64	Lin. Ft.	12" Conduit, Type E
603				32	32	Lin. Ft.	18" Conduit, Type E
603	10				10	Lin. Ft.	6" Conduit, Type F
603				10	10	Lin. Ft.	8" Conduit, Type F
603				10	10	Lin. Ft.	10" Conduit, Type F
603				10	10	Lin. Ft.	12" Conduit, Type F
603				10	10	Lin. Ft.	18" Conduit, Type F
604				2	2	Each	Std. No. 2-2B Catch Basin, Modified as per plan
605		568			568	Lin. Ft.	Aggregate Drains
							PAVEMENT
301		421			421	Cu. Yd.	Bituminous Aggregate Base: 702.01 (85-100 or AC 10); or 702.09 RT-11 or RT-12
304		535		24	559	Cu. Yd.	Aggregate Base
402		110			110	Cu. Yd.	Asphalt Concrete (70-85 or AC 20)
404		73			73	Cu. Yd.	Asphalt Concrete (70-85 or AC 20)
408		437			437	Gal	Bituminous Prime Coat: 702.09, RT-2 or RT-3
409		263			263	Gal	Seal Coat Bituminous Material: 702.09, RT-9 or RT-10; or 702.02, MC-800 or MC-3000
409		7			7	Cu. Yd.	Seal Coat Cover Aggregate No. 8
611		133			133	Sq. Yd.	Reinforced Concrete Approach Slab (T=13")
							STRUCTURES OVER 20' SPAN
							For Quantities of Bridge No. ALL-117-2444 see Sheet No. 15
614						Lump	Maintaining Traffic
						Lump	Construction Layout Stakes
619						Lump	Field Office

Computations By Initials Date
Computations Checked By Initials Date

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8" Maple 20" Maple
P.C. Sta. 1282+25.59
20" Hackberry 40" Lynn
Δ = 5°18' Lt.
P.I. Sta. 1283+91.33
Buttons in E.P.
P.T. Sta. 1285+56.84
Button in E.P.
Tacked Hub by S.R. 196 Sign
P.O.T. Sta. 1295+00
ALLEN COUNTY
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UTILITIES
Ohio Power Co. Lima, O.
United Telephone Service Lima, O.
Gas — West Ohio Gas Co. Lima, O.
EXISTING STRUCTURE
Type — Concrete Girder
Span — 60'-0"
Width — 23'-4" f/f of Curbs
Alignment — Tangent
Condition — Poor
CURVE DATA
P.I. Sta. 1283+91.33
Δ = 5°-18' Lt.
D = 1°-36'
T = 146.74'
E = 3.83'
L = 331.25'
R = 3580.99'
Begin Work Sta. 1283+00
Begin Project Sta. 1284+75 S.L.M. 24.37
End Project Sta. 1292+50 S.L.M. 24.52
End Work Sta. 1293+75
** TRANSITION DETAIL
Quantities carried in Pavement Computations
Butt Joint
Rock Chan. Prot. 2" Thick
ALL-117-24.40
Proposed Temporary Road Item 615
Proposed Class A Temporary Pavement (22' Wide) Item 615
Temp. R/W
Note: The grade line of the Proposed temporary road shall be approximately the same as the existing road.
Note: Tables containing Quantities of A, D, & G Items shown on Intersection & Estimated Quantities sheet No. 6
Guard Rail Terminal Section. See General Note sheet No. 3 for information.
PROPOSED STRUCTURE
TYPE — Continuous reinforced Concrete Slab with capped pile abutments & reinforced Concrete piers.
SPANS — 28'-0"-35'-0"-28'-0" c/c brgs.
ROADWAY — 44'-0" f/f guard rails
LOADING — H5 20-44
SKEW — 25° L.F.
WEARING SURFACE — 1" Monolithic Concrete
APPROACH SLABS — AS-1-67 (25' long)
ALIGNMENT — Tangent
** Quantities in transition detail to be non-performed provided the Widening has been completed on a previous construction Contract.
B.M. #1, "X" in top Conc. Step Sta. 1280+45, 29' Lt. Elev. 946.62
B.M. #4, U.S.G.S. "D" on W. Wall at S. Cor. of Bridge over Auglaize R. Elev. 941.91
B.M. #6, Spike in Sta. 1296+17, 28' Rt. Elev. 942.00
Begin Sheet
End Sheet
Auglaize River
Bridge Limits
200' V.C.
150' V.C.
+0.32%
-1.10%
0.00%
P.I. Sta. 1284+00 Elev. 941.08
P.I. Sta. 1290+00 Elev. 943.00
P.I. Sta. 1299+00 Elev. 943.00
*Highest known Hi-Water (1959) Elev. 941.5
10 Yr. Hi-Water Elev. 938.8
5 Yr. Hi-Water Elev. 937.3
Flow Line Elev. 931.21
* Caused by ice jam @ Structure.
Excavation 1177 Cu. Yd.
Embankment 2304 Cu. Yd.
Sta. 1280+00 to Sta. 1296+00
Computations By Initials Date 6-23-70
Computations Checked By Initials Date 6-24-70
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ESTIMATED QUANTITIES

Item 203	Subgrade Compaction	221	Sq. Yd.
Item 304	8" Aggregate Base	41.6	Cu. Yd.
Item 402	1½" Asphalt Concrete	9.2	Cu. Yd.
Item 404	1" Asphalt Concrete	6.1	Cu. Yd.
Item 408	Prime Coat	88.2	Gal.

Quantities carried to Pavement Computations

INTERSECTION NO. 1-P

Sta. 1289+63.53

Scale 0 10 20 40 Feet

GUARD RAIL "G"

Ref. No.	Station From	Station To	Side	606 Guard Rail Type 5 Lin. Ft.		Bridge Terminal Assembly Type 2 Each	Anchor Assembly Each
1-G	1286+49.78	1289+34.83	Rt.	*194.84		2	1
2-G	1286+70.58	1290+70.22	Lt.	*257.34		2	2
Totals				452.18		4	3

* 92.66' Deducted for Bridge

ROADWAY DRAINAGE "D"

Ref. No.	Station From	Station To	Side	202 Catch Basin Abandoned Each	202 Pipe Removed 24" & Under Lin. Ft.	601 Rock Channel Prot. Cu. Yd.	602 Concrete Masonry Cu. Yd.	603 Conduit Lin. Ft. Type A 706.02 706.08 24"	E 6"	E 8"	E 10"	E 12"	E 18"	F 8"	F 10"	F 12"	F 18"	604 Std. 2-28 CB (Type) Each	660 Sodding Sq. Yd.	Bends & Branches
1-D	1283+96	1284+08	Rt.	1					16									1	16	1
2-D	1284+22	1288+50	Lt.	1		6			6	20	418				10			1	16	1
3-D	1288+00	1288+50	Lt.							40				10						1
4-D	1288+00	1289+86	Rt.		104	15	0.86	62				24				10				
5-D	1289+05	1289+84	Lt.	1		5							32				10			1
Totals				3	104	26	0.86	62	22	60	418	24	32	10	10	10	10	2	32	

SIDE APPROACHES "A"

Ref. No.	Station	Side	304 Aggregate Base Cu. Yd. 5"	6"	8"	408 Bitum. Prime Coat Gal.	603 Conduit Lin. Ft. Type D 12"	15"	Remarks	Driveways Width	Length 404	Length 304
1-A	1284+05	Lt.		12					Fld. Dr.	12'		25
2-A	1291+00	Lt.		12			28		Fld. Dr.	12'		25
Totals				24			*28					

* 707.01 (14 Gage)

201 Trees & Stumps removed 3-18" Each
201 Trees & Stumps removed 1-48" Each

Computations by Initials [illegible] Date 4-27-70
Computations Checked By Initials CMR Date 4-25-70

Note:
Tables of Estimated Quantities of Items A, D & G from Line Sheet No. 5

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75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55
60 65 70 75
94
R/W
935.3
8"
10"(E)
10"(Aban)
Back
Ahead
942.36
1287+88.67
941.87
Begin Approach Slab, Sta. 1287+88.67
935.9
Sta. 1287+88.67
Ahead 41' 111'
Back 29' 111'
404'
30' 191'
942.20
1287+50
941.05
935.4
935.0
13' 156'
522'
24' 275'
942.04
1287+00
940.57
935.5
935.1
13' 141'
Transition from 10' Shoulders @ Sta. 1286+00 to
12' Shoulders @ Sta. 1286+75, Rt. & Lt.
1044'
41' 467'
941.72
1286+00
940.30
935.7
935.8
9' 111'
35' 341'
Computations By
Initials LAG Date 4-27-70
Computations Checked By
Initials CMK Date 4-28-70
94 Sta. 1285+00
3014 Sheet Total
Sta. 1285+00 10' 73'
Sta. 1286+00 to Sta. 1287+88.67
MAR 16 1970
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ALLEN COUNTY
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BRIDGE NO. ALL-117-2444

Quantities from Channel Sections, Sheet No. 12

729 0

39 99

Computations By
Initials [illegible] Date 4-28-70
Computations Checked By
Initials [illegible] Dated 4-29-70

MAR 16 1998
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MAR 1 6 1998
ARCHIVE Con7010

45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45

Seeding Wide	Seeding Sq. Yd.		End Area Cut	End Area Fill	Co. Yds. Cut	Co. Yds. Fill
		R/W 1295+00 944.04 R/W				
		R/W 1294+00 943.82 R/W				
0		Sta. 1293+75 End Work, Sta. 1293+75 Sta. 1293+75	0	0		
	221				28	26
53		R/W 940.2 (2) 12" 943.15 1293+00 943.03 (20) 941.2 (2) 12" R/W	20	19		
	644	End Project, Sta. 1292+50			63	94
63		R/W 940.0 (2) 12" 943.00 1292+00 942.40 (10) 940.0 (2) 12" R/W	14	32		
		End 12" D Sta. 1291+14, 33' Lt. F.L. 939.57				
	-65	Corr. for Dr. Lt. Corr. for Dr. Lt.			35	174
						+10
R/W 51'	822	12"(D) 939.5 12" 943.00 1291+00 941.70 12" 939.4 (2)	5	62		R/W 55'
		Begin 12" D Sta. 1290+86, 33' Lt. F.L. 939.43				
		Transition from 12' Shoulders @ Sta. 1290+50 to 10' Shoulders @ Sta. 1291+00, Lt.			54	269
R/W 56'	85	939.0 (6) 12" 942.92 1290+00 941.40 12" 938.4 (12)	24	83		R/W 60'
		Sta. 1290+00 (Ahead) Sta. 1290+00 (Ahead)				
	196	942.90 1289+90 941.49 12" 937.6				R/W 73'
		End 24" (A) Sta. 1289+86.47' Rt. F.L. 937.40				
R/W 57'	111	938.95 12" 18" Aban. (202) Conn. Thru. 942.89 1289+82 941.55 24" C.M.P. (202) 12" 24" (A)				R/W 85'
R/W 58'		938.75 18" 1289+65 941.80 Fld. Dr. Lt. (To be relocated) Corr. for Inter. Rt.			-70	+20
	381					
	-60	Corr. for Inter. Rt. Sta. 1289+31.33 (Back)	71	74		
		Sta. 1289+07.08 (Ahead)	51	121	54	88
		942.85 1289+63.53 941.84 Creps Rd. Rt. 24" C.M.P. (202) 12" 24" (A)				R/W 110'
		Begin 24" (A) Sta. 1289+24.43' Rt. F.L. 937.10				
	95	Sta. 1289+31.33 (Back)				
R/W 63'	260	938.4 (12) 18" 942.77 1289+31.33 942.26 (21) 24" C.M.P. (202) 12" (20) 937.2				R/W 65'
		End Approach Slab, Sta. 1289+31.33				
	94	Sta. 1289+07.08 (Ahead)				
	2399	Sheet Total				

Sta. 1289+31.33 Sta. 1289+07.08 Sta. 1293+00

ALLEN
ALT. 117-24 #37
COUNTY

Computations By Initials LAH Date 4-28-70
Computations Checked By Initials [illegible] Date 4-29-70

45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45

10 18

ALLEN COUNTY
ALL-117-2437

End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
115	0		
		75	0
89	0		
		128	0
50	0		
		37	0
0	0		

Sta. 1+60

Computations By
Initials J.R.J. Date 6-26-70
Computations Checked By
Initials C.M.Z. Date 6-27-70

MAR 16 1998
C117011

ALLEN COUNTY
ALL-117-24.37

	End Area		Cu. Yds.	
	Cut	Fill	Cut	Fill
Sta. 4+00	0	0		
			44	0
	95	0		
			64	0
	79	0		
			322	0
	165	0		
			59	0
Sta. 2+70	113	0		
	Totals		729	0

Computations By
Initials SRB Date 6-25-70
Computations Checked By
Initials CMZ Date 6-26-70

Quantities carried to Sheet # 9

Channel Sections, Auglaize River Sta. 2+81.5 to Sta. 4+50

NOV 1 6 1998
MAR 1 6 1998
ARCHIVE 6,117012

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	71	

13/18

ALLEN COUNTY
ALL-117-24.37

6.2± miles southeast of Lima

EXISTING STRUCTURE
- ✓ Type – Concrete Girder
- ✓ Span – 60'-0" (Clear)
- ✓ Width – 23'-4" f/f of Curbs
- ✓ Alignment – Tangent
- ✓ Condition – Poor

Built ~ 1923

PROPOSED STRUCTURE

TYPE: Continuous reinforced concrete slab with capped pile abutments and reinforced concrete piers
SPANS: 28.0'-35.0'-28.0' c/c brgs.
ROADWAY: 44.0' f/f guardrails
LOADING: HS 20-44
SKEW: 25° L.F.
WEARING SURFACE: 1" monolithic concrete
APPROACH SLABS: AS-1-67 (25' long)
ALIGNMENT: Tangent

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

1/4

SITE PLAN

BRIDGE NO. A11-117-2444
Over Auglaize River

ALLEN CO. SEC.
S.R. 117 STA. 1288+13.67 1289+06.33

SCALE 1" = 20'

PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
		D.H.S.	D.H.S.	N.J.B.	P.E.S.

BFG 7-8-70

MAR 16 1996
Bridge 117013

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

14/18

ALLEN COUNTY
ALL-117-2437

GENERAL PLAN

All piles HP10x42; Piles not all shown; see 3/4 for details.

ELEVATION

SECTION OF GUARDRAIL

SPECIAL WASHER
Use under head of all post bolts.

ADDITIONAL GUARDRAIL DETAILS: Refer to Standard Drawing CS-1-65, Sht. 1

TERMINATION OF LOWER RAIL

GENERAL NOTES

REFERENCE shall be made to Standard Drawings A-1-54 revised 11-8-65 and CS-1-65 sheet 1 of 2 dated 6-1-65, and to Supplemental Specifications 808 dated 1-1-71 and 836 dated 1-1-71.

DESIGN SPECIFICATIONS: This structure conforms to "Standard Specifications for Highway Bridges" adopted by the American Association of State Highway Officials 1969, including the Ohio "Supplement" to these specifications.

DESIGN DATA

Design Loading - HS20-44

Concrete Class C - unit stress 1200 p.s.i. for superstructure.
unit stress 1333 p.s.i. for substructure.

Reinforcing Steel - ASTM A615, A616 or A617 - unit stress 20,000 p.s.i.

REMOVAL OF EXISTING STRUCTURE: when no longer needed to maintain traffic the existing structure shall be removed.

EMBANKMENT CONSTRUCTION: The embankments shall be constructed to the level of the subgrade. Excavation shall then be made for the abutments and for the benches.

ABUTMENT EXCAVATION QUANTITY, in addition to 503.11, includes the removal of material bounded by the proposed bench, by the front vertical plane described in 503.10 and by the finished slope of the cut.

PILES shall be driven to firm contact with bedrock. If the length of penetration is approximately equal to the depth to bedrock according to the bridge foundation investigation report, the firm contact shall be considered as attained when the capacity according to the formula in 507.05 is not less than the following value for a pile hammer of the indicated energy rating: 50-tons per pile using a 7,000 ft. lb. hammer; 45-tons per pile using an 11,000 ft. lb. hammer; 40-tons per pile using a 15000 ft. lb. hammer.

If the energy rating of the hammer is between the ratings as shown above, the required formula capacity shall be determined by interpolation. The design load is 30 tons per pile for the abutment piles.

FOUNDATION BEARING PRESSURE: Pier footings are designed for a maximum bearing pressure of 6.0 tons per sq. ft.

PIER FOOTINGS shall extend a minimum of 3 inches into bedrock, or to the elevation shown, whichever is lower.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

2/4

GENERAL PLAN, ELEVATION NOTES & GUARDRAIL DETAILS

BRIDGE NO. ALL-117-2444
OVER AUGLAIZE RIVER

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JSC			HEN	BFG	7-8-70	

Da 1170 14

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

16/18

ALLEN COUNTY
ALL-117-2437

PIER PLAN

SECTION B-B

PIER ELEVATION

SECTION A-A

COMPOSITE TRANSVERSE SECTION

The following exceptions and explanations refer to Std. drwg. CS-1-65 sheet 1:
dimension "f" = 11'-3"
dimension "g" = 5'-10"
dimension "h" = 4'-0"
spacing "m" = 16"
J501 & K501 Lap each F1066 Bar.
N401 bars are placed on top of longitudinal reinforcing and spaced at 1'-0" along the slab.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

4/4

PIER DETAILS & SUPERSTRUCTURE DETAILS
BRIDGE NO. ALL-117-2444
OVER AUGLAIZE RIVER

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JSC			HEN	BFG	7-8-70	

FED RD. DIVISION	STATE	PROJECT	
2	OHIO		

ALLEN COUNTY
ALL-117-(24.40)
R/W PLAN

1/2

PROPERTY PLAT - S.R.-117
ALLEN COUNTY - AUGLAIZE TWP
SEC'S. 7, 8, 17 & 18 T.4 S.-R.8 E.

SUMMARY OF ADDITIONAL R/W REQUIRED

PAR. NO.	OWNER	TYPE OF FUNDS	DEED RECORD BOOK	DEED RECORD PAGE	DEED OR TAX MAP AREA	TO BE ACQUIRED LAND	TO BE ACQUIRED BLDGS	RESIDUE LEFT	RESIDUE RIGHT	SHEET NO.	REMARKS
58 ✓	CLYDE W. SNEARY & CAROL A. SNEARY		449	422	Not Used	—	—	—	—	1	LOT #23
59 ✓	DORANCE B. SANDERS & MARY K. SANDERS		311	206	2.35	0.36	—	—	1.51	1,2	Lot #11 & 12, O.L. #6 Plus 1.5 Acre
59T ✓	" " " "					0.49					
60 ✓	JACOB HOOVER (L.E.)		336	514	87/123F	990 SF	—	7722 SF	—	1,2	LOT #24
60A ✓	ALMA STEVENSON & CARL STEVENSON		206	180	8.75	0.33	—	8.10	—	1,2	
60AX ✓	" " " "					0.10					
61 ✓	GLADYS DAUCH		468	167	252.45	0.52	—	73.17	170.77	1,2	
61T1 ✓	" " " "					0.17				1,2	
61T2 ✓	" " " "					0.56				1,2	
61X ✓	" " " "					0.07				1,2	

UTILITIES

TELEPHONE — UNITED TELEPHONE SERVICE — LIMA, OHIO
ELECTRIC — OHIO POWER CO — LIMA, OHIO
GAS — WEST OHIO GAS CO — LIMA, OHIO

NOTE:
SEE NEXT PAGE FOR BEARINGS, STATIONS & OFFSETS

DATE 7-8-70 DRAWN D.F., T.J.F. CALC. D.W.V.

REV	DATE	DESCRIPTION
1	7-10-70	Revised R/W & Quantities PAR 60A

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

ALLEN COUNTY
ALL-117-(24.40)
R/W PLAN

2/2

WESTMINSTER SEC. 18 AUGLAIZE TWP. T.4S. R.8E.

60

Deed Area	=	8712 S.F.
Total P.R.O.	=	0 S.F.
Total Take	=	990 S.F.
P.R.O. in Take	=	0 S.F.
Net Take	=	990 S.F.
Net Residue	=	7722 S.F.

61 T1		61 T2	
Total Take =	0.20 Ac.	Total Take =	0.559 Ac.
P.R.O. in Take =	0.03 Ac.	P.R.O. in Take =	0.004 Ac.
Net Take =	0.17 Ac.	Net Take =	0.56 Ac.

WESTMINSTER SEC. 18 AUGLAIZE TWP. T.4S. R.8E.

DATE 7-8-70 DRAWN TJF CALC. D.W.V.

REV.	DATE	DESCRIPTION
1	7-10-70	Changed R/W & P/L PAR 60A