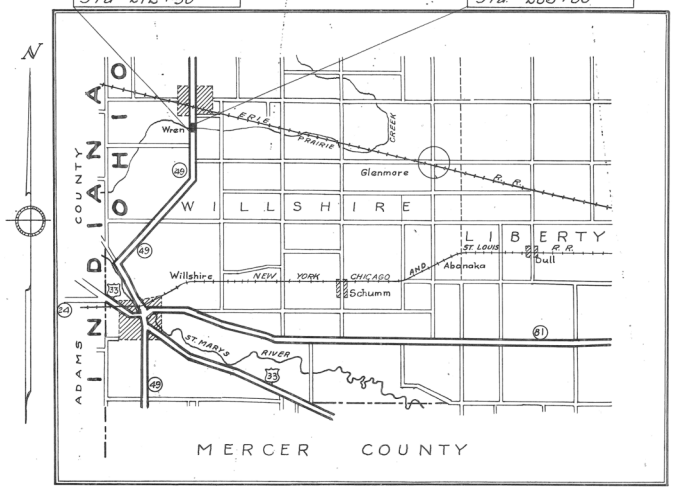
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS	
2	OHIO	S-124(3)	POST WAR	1/11

VAN WERT COUNTY
S.R. 49-Sec. Van.-49-5.17

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
VAN-49-5.17
VAN WERT COUNTY
WILLSHIRE TOWNSHIP

S-124(3)

Begin Work Sta. 271+00	End Work Sta. 284+50
Begin Project S-124(3) Sta 272+50	End Project S-124(3) Sta. 283+00



DELIVERY POINT: WREN AVERAGE HAUL = ½ MILE.

CONVENTIONAL SIGNS

STATE LINE
COUNTY LINE
TOWNSHIP LINE
SECTION LINE
CORPORATION LINE
FENCE LINE
CENTER LINE
POLE LINE
STEAM RAIL ROAD
GUARD RAIL (Proposed)
GUARD RAIL (Existing)
DRAIN PIPE (Proposed)
DRAIN PIPE (Existing)
PROPERTY LINE

INDEX OF SHEETS

TITLE SHEET	1
TYPICAL SECTIONS	2
GENERAL NOTES	3
SUMMARY	3
PLAN & PROFILE	4
CROSS SECTIONS	5-7
TREE & STUMP SCHEDULE	
SPECIAL DETAILS	2
STRUCTURE OVER 20 FT. SPAN	8-11

The Standard Specifications of the State of Ohio, Department of Highways, including changes and Supplemental Specifications listed on 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 provision for the maintenance and safety of traffic will be as set forth on the plans and estimates.

Approved Walter J. Neidhardt
Date: 9-22-49 Resident Division Deputy Director

Approved _____
Date: _____ Chief Engineer, Bureau of Maintenance

Approved Richard Orth
Date: 10-13-49 Chief Engineer, Bureau of Bridges & R.R. Crossings.

Approved K. L. Schumacher
Date: 12-[illegible]-49 Chief Engineer, Bureau of Location & Design

Approved V. P. Kohaupt
Date: 10-17-49 First Assistant Director & Chief Engineer

Approved _____
Date: [illegible] Director of Highways.

LINE DATA

BEGIN PROJECT S-124(3) STA. 272+50
END PROJECT S-124(3) STA. 283+00
GROSS LENGTH = NET LENGTH S-124(3) = 1050.00 LIN. FT. OR 0.198 MILES

BEGIN WORK STA. 271+00
END WORK STA. 284+50
GROSS LENGTH = NET LENGTH = 1350.00 LIN. FT. OR 0.255 MILES

LOCATION PLAN

Scale 1" = 1 MILE

PORTION TO BE IMPROVED
STATE HIGHWAYS
OTHER ROADS

SCALES

PLAN	1 Inch = 50 Feet
PROFILE (Horizontal)	1 Inch = 50 Feet
PROFILE (Vertical)	1 Inch = 5 Feet
CROSS SECTIONS	1 Inch = 5 Feet

CONSTRUCTION BUREAU
JUN 13 1955
GROUND PHOTOGRAP

RECOMMENDED FOR APPROVAL DATE

DISTRICT ENGINEER
BUREAU OF PUBLIC ROADS
DEPARTMENT OF COMMERCE

DATE

DIVISION ENGINEER
BUREAU OF PUBLIC ROADS
DEPARTMENT OF COMMERCE

SUPPLEMENTAL SPECIFICATIONS

Number	Date	Number	Date	Number	Date
T-110 Rev.	8-3-36				
31	6-13-49				

STANDARD DRAWINGS

Drawing	Date	Drawing	Date	Drawing	Date
CS-1-47 Rev.	1-20-48	G-8.07	2-1-47		
AP-1-47	9-18-47	L-3	2-1-47		
I-15 No. 1	3-1-47				
I-15 No. 2	6-17-49				
I-12,3,4&5	2-20-45				
I-8 C.B. 1&2 & B	12-15-41				

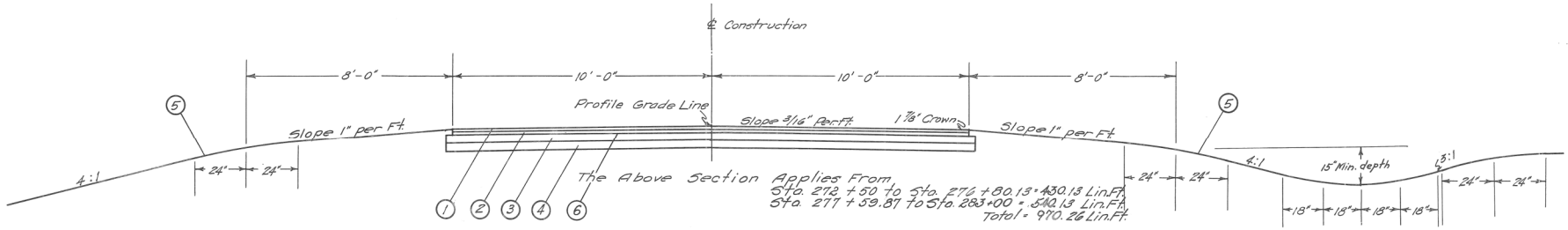
FILE No.	VAN WERT COUNTY S.R. 49
	SEC. 5.17
	DATE OF LETTING
	CONTRACT No.

FED. RD. DIVISION	STATE	PROJECT	Type Funds
2	OHIO	S-124 (3)	Post War

2
11

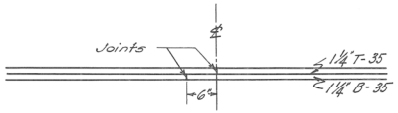
VAN WERT COUNTY
S.R.-49 - SEC. VAN-49-5.17

TYPICAL SECTION
TYPE T-35



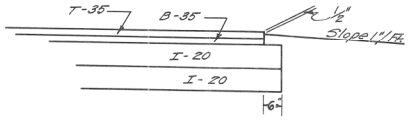
DATA ON EXISTING PAVEMENT
18'± Surface Treated Macadam

1. Item T-35, 1¼" Asphaltic Concrete Surface Course Type A
2. Item B-35, 1¼" (Min. Thickness) Asphaltic Concrete Leveling Course
3. Item I-20, 4" Second Insulation Course (Coarse Graded Type)
4. Item I-20, 4" First Insulation Course (Coarse Graded Type)
5. Item L-9, Seeding & Protecting, Type "A"
6. Item T-30, Bituminous Prime Coat, Sec. M-5.7 RT-2 or 3 using .25 Gal. per Sq. Yd.



DETAIL SHOWING METHOD OF LAPPING LONGITUDINAL JOINT

DETAIL OF BERM TREATMENT AT EDGE OF PAVEMENT



GENERAL NOTES

UTILITIES: Any and all work required for Public or Private Utilities will be done by and at the expense of their respective owners.

RIPRAP: Suitable material resulting from the removal of the existing structure, or portion thereof, may be used in the construction of new Riprap Type "A".

CATCH BASINS: Grate elevations of Catch Basins are only approximate and shall be adjusted by the Engineer to better fit conditions in the field. They shall be generally four to six inches lower than the normal gutter line.

FIELD OFFICE: The contractor shall provide a suitable "Field Office" for the exclusive use of the Engineer and Inspectors assigned to this project. This office shall have a minimum of 110 sq. ft. of floor space and so arranged, equipped and lighted that the State employees will have a convenient place for making the necessary records etc., and have a safe place for storage of equipment, plans and necessary supplies. When the work is in progress during cold weather, the office shall be heated to a temperature of at least seventy (70°) degrees farenheit. See sections 5-0.01 (b) of the Construction and Material Specifications.

L-9 SEEDING AND PROTECTING, TYPE "A": Seeding mixture shall be as follows:

60% Kentucky Blue Grass or Alta Fescue.
15% Fancy Red Top
20% Perennial Rye Grass
5% Alsike Clover

Quantities for seeding, Item L-9 are calculated for the soil areas between the lines ten feet (10') outside the work limits as shown on the cross-sections or to the R/W line if such line is less than ten feet (10') from the work limits. All areas outside these limits where vegetative growth has been injuriously disturbed or destroyed by the Contractor shall be restored and seeded in accordance with the provisions of Item L-9 by the Contractor at his own expense.

COMMERCIAL FERTILIZER: Formula (10-6-4) shall be applied to all areas to be seeded or sodded at the rate of 20 pounds per 1000 Sq. Ft.

TRAFFIC MAINTENANCE: TRAFFIC SHALL BE MAINTAINED OVER THE EXISTING PAVEMENT, TEMPORARY STRUCTURES AND RUN AROUND UNTIL THE NEW STRUCTURE AND PAVEMENT IS COMPLETE.

TEMPORARY SURFACING SHALL BE CONSTRUCTED BY THE CONTRACTOR USING AGGREGATE, ITEM T-110, AND SHALL BE MAINTAINED IN A SMOOTH CONDITION BY DRAGGING AND THE ADDITION OF AGGREGATE AS DIRECTED BY THE ENGINEER. CALCIUM CHLORIDE SHALL BE USED AS A DUST PALLIATIVE.

ROADWAY DRAINAGE "D"

Item No.	Station From	Station To	Side	I-3 Lin.Ft. 12"	I-3 Lin.Ft. 12"	I-3 Lin.Ft. 15"	I-8 Inlet Type Each
1-D	276+20	277+25	Lt.	84		20	1
2-D	277+65	278+00	Lt.		34		1
3-D	276+45	277+76	Rt.		30		1
4-D	277+15	278+00	Rt.	64		20	1
Totals				148	64	40	4

PAVEMENT COMPUTATIONS

Item T-35, 1¼" Asph. Conc. Surf. Course Type A.
Net Length From Typical Section = 970.26 Lin. Ft.
Area = 970.26 × 20 ÷ 9 = 2156.13 Sq. Yds.
Add for Meeting Existing Pvt. 150.00 Sq. Yds.
Total Area = 2306.13 Sq. Yds.
Volume = 2306.13 × 1.25 ÷ 36 80.07 Cu. Yds.
Use 80.00 Cu. Yds.

Item B-35, 1¼" Minimum Asph. Conc. Lev. Course
Net Length From Typical Section = 970.26 Lin. Ft.
Area = 970.26 × 20 ÷ 9 = 2156.13 Sq. Yds.
Add for Meeting Existing Pvt. 70.00 Sq. Yds.
Total Area = 2226.13 Sq. Yds.
Volume = 2226.13 × 1.25 ÷ 36 77.89 Cu. Yds.
Extra For Correction of Surf. Irreg.
2226.13 × ½" ÷ 36 = 30.91 Cu. Yds.
Total Volume = 108.20 Cu. Yds.
Use 109.00 Cu. Yds.

Item I-20, 8" Insulation Course (Coarse Graded Type)
Net Length From Typical Section = 970.26 Lin. Ft.
Area = 970.26 × 21 ÷ 9 = 2264.0 Sq. Yds.
Use 2264.0 Sq. Yds.

Item T-30, Bituminous Prime Coat, Sec M-5.7 RT-2 or 3
Total Area Same as I-20, 8" Course = 2264.00 Sq. Yds.
2264.00 × .25 = 566 Gals.
USE 566 Gals.

Item E-4, Borrow
E-1, Roadway Excavation = 788 Cu. Yds.
E-3, Channel Exc. = 634 × 50% = 317 Cu. Yds.
(50% Estimated as suitable)
Total to be used in Roadway Embankment = 1105 Cu. Yds.
Embankment +20% = 2998 Cu. Yds.
Less, E-1 Plus Suitable E-3 = 1105 Cu. Yds.
E-4, Borrow = 1893 Cu. Yds.
Use 1893 Cu. Yds.

Item L-9, Commercial Fertilizer
Area from Roadside Improvement Table 8569 Sq. Yds.
Tons Required 8569 × (9 ÷ 1000) × (20 ÷ 2000) = 0.77 Tons
Use 0.77 Tons

GUARD RAIL "G"

Item No.	Station From	Station To	Side	I-15 Guard Rail Lin.Ft.
1-G	276+73.28	276+89.50	Lt.	16.22
2-G	277+69.25	277+85.78	Lt.	16.53
3-G	276+54.22	276+70.74	Rt.	16.52
4-G	277+50.49	277+66.72	Rt.	16.23
Totals				65.50

GENERAL SUMMARY

Item	Quantities	Unit	Description
	CODE 6201		Roadway
E-1	788	Cu. Yds.	Roadway Excavation
E-4	1893	Cu. Yds.	Borrow
E-11	9	M. Gal.	Water
I-15	655	Lin. Ft.	Guard Rail Steel Beam Type (Deep)
L-10	94	Sq. Yds.	Sodding
R-9	1	Each	Removal Of trees & stumps
L-9	0.77	Ton	Commercial Fertilizer (10-6-4)
L-9	8475	Sq. Yds.	Seeding & Protecting, Type "A" as per plan
			Drainage
I-3	148	Lin. Ft.	12" Roadway Drainage
I-3	64	Lin. Ft.	12" Outlet for Roadway Drainage
I-3	40	Lin. Ft.	15" Outlet for Roadway Drainage
I-8	4	Each	Std. No. 1-28 Catch Basins
			Pavement
T-35	80	Cu. Yds.	Asph. Conc. Surf. Course, Type "A" (85-100)
B-35	109	Cu. Yds.	Asph. Conc. Lev. Course (85-100)
I-20	2264	Sq. Yds.	8" Insulation Course (2-4" Courses)
T-30	566	Gals.	Bituminous Prime Coat, Sec. M-5.7 RT-2 or 3
			STRUCTURE (Over 20' Span)
			see sheet No. 9

ROADSIDE IMPROVEMENT

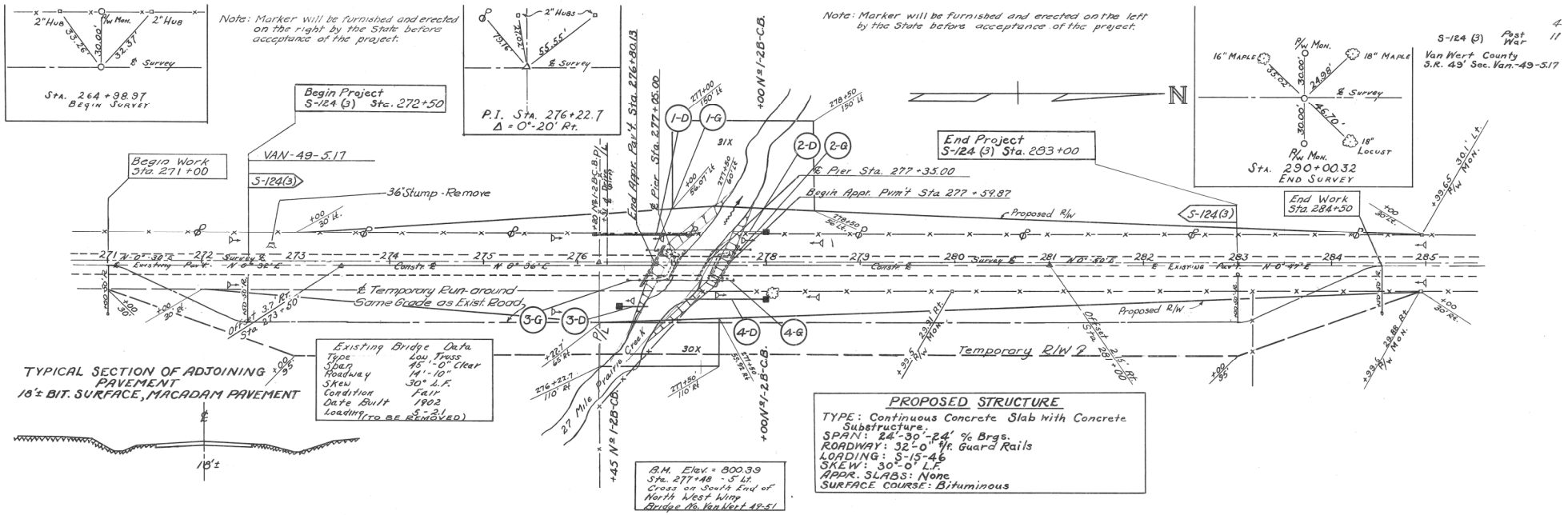
Sheet No.	L-9 Seeding & Protecting Type "A" Sq. Yds.	L-10 Sodding Sq. Yds.
5	3427	34
6	5048	60
Total	8475	94

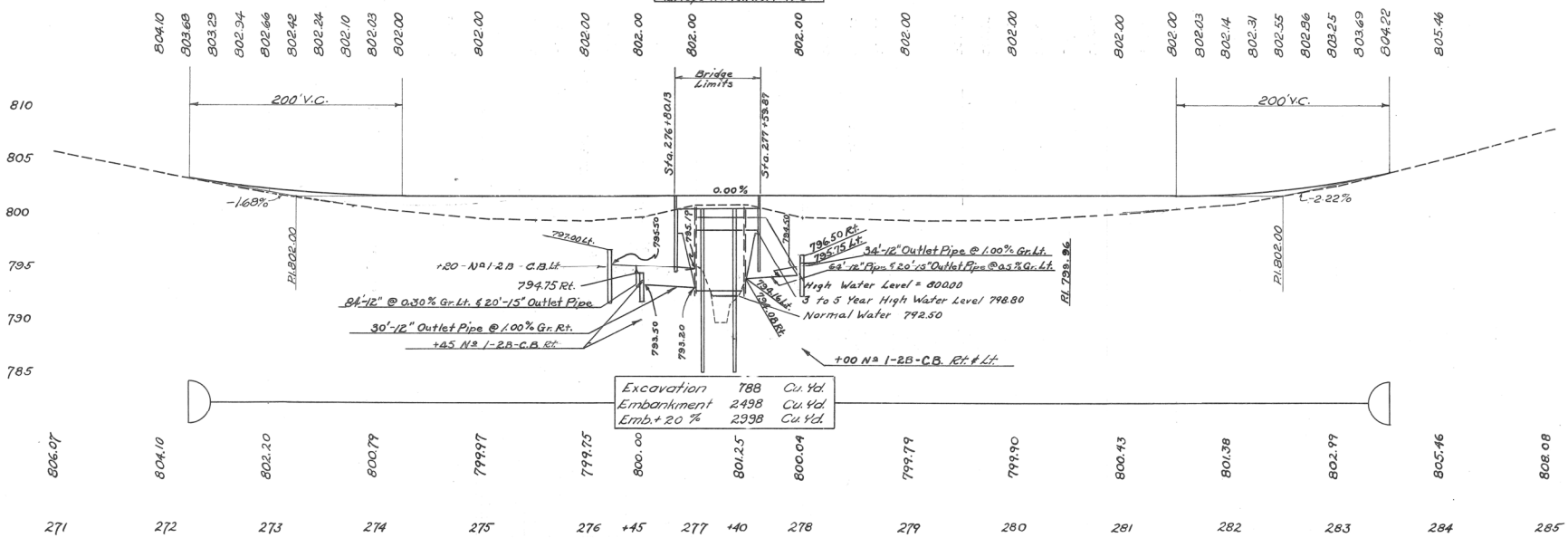
GENERAL NOTES (CON'T)

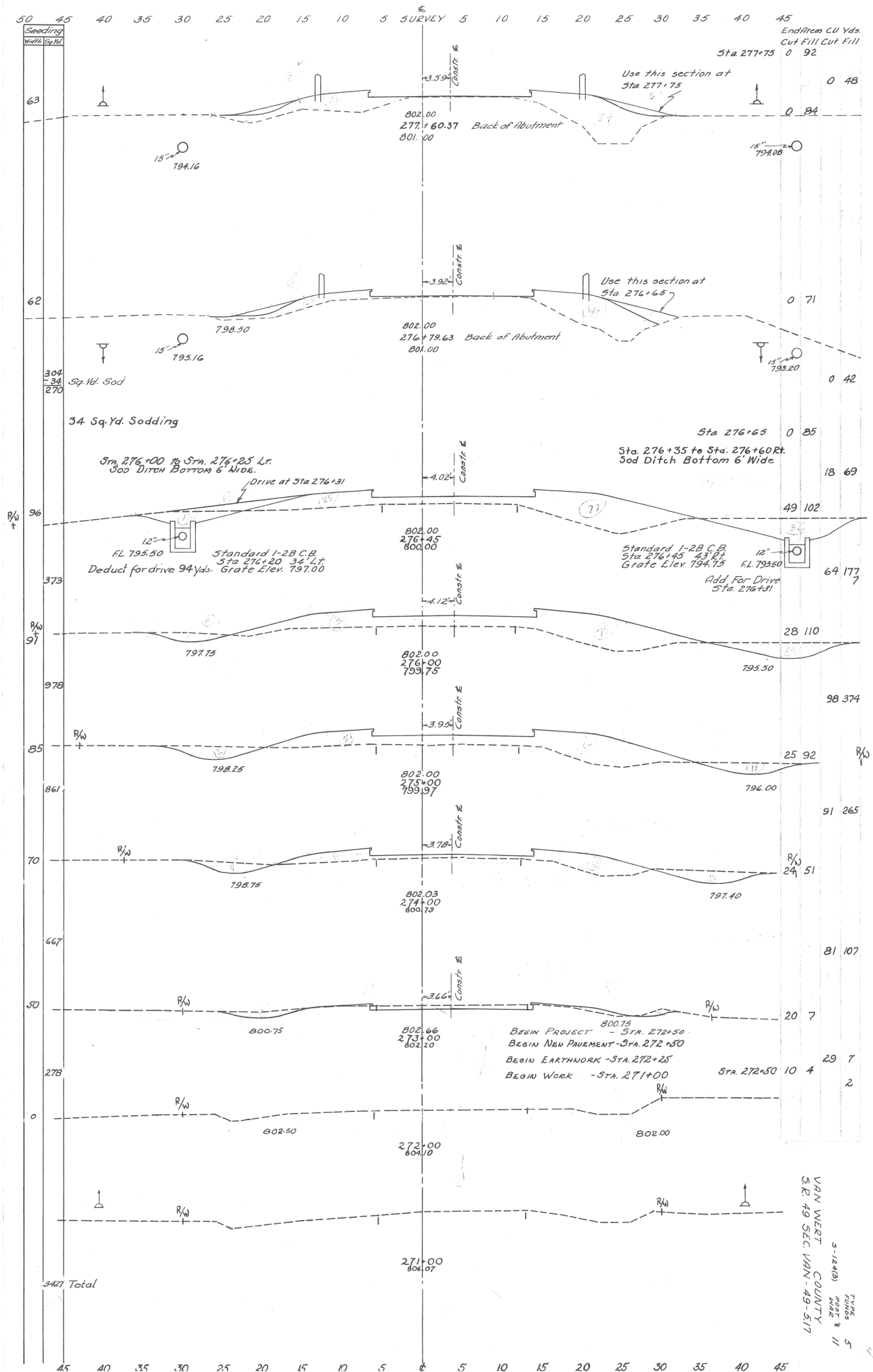
SCALPING:

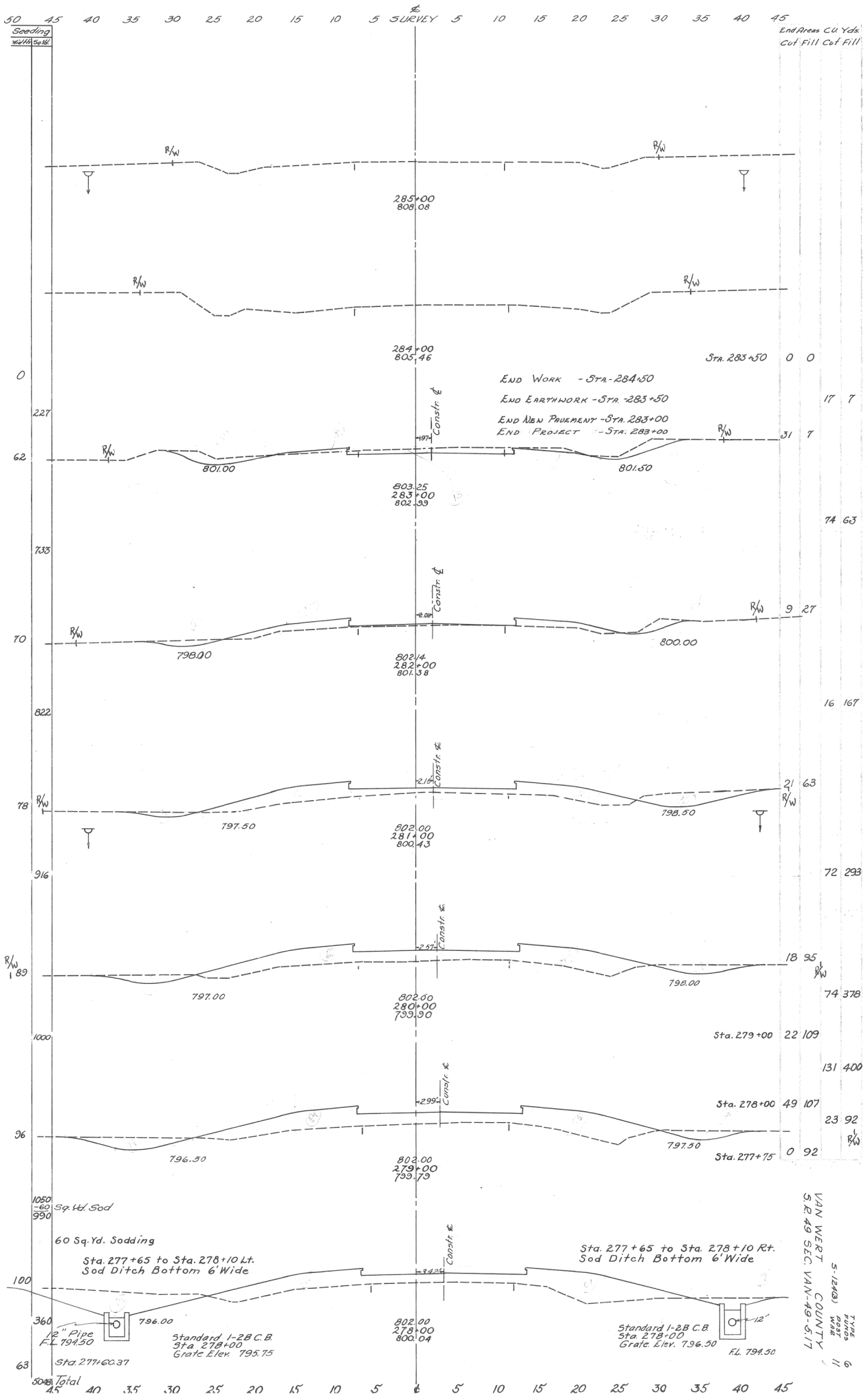
Top soil from the scalping operation shall be used in the final operation necessary for finishing shoulders, slopes and ditches. Cost of this Work shall be included in the price bid for Item E-1 Roadway Excavation.

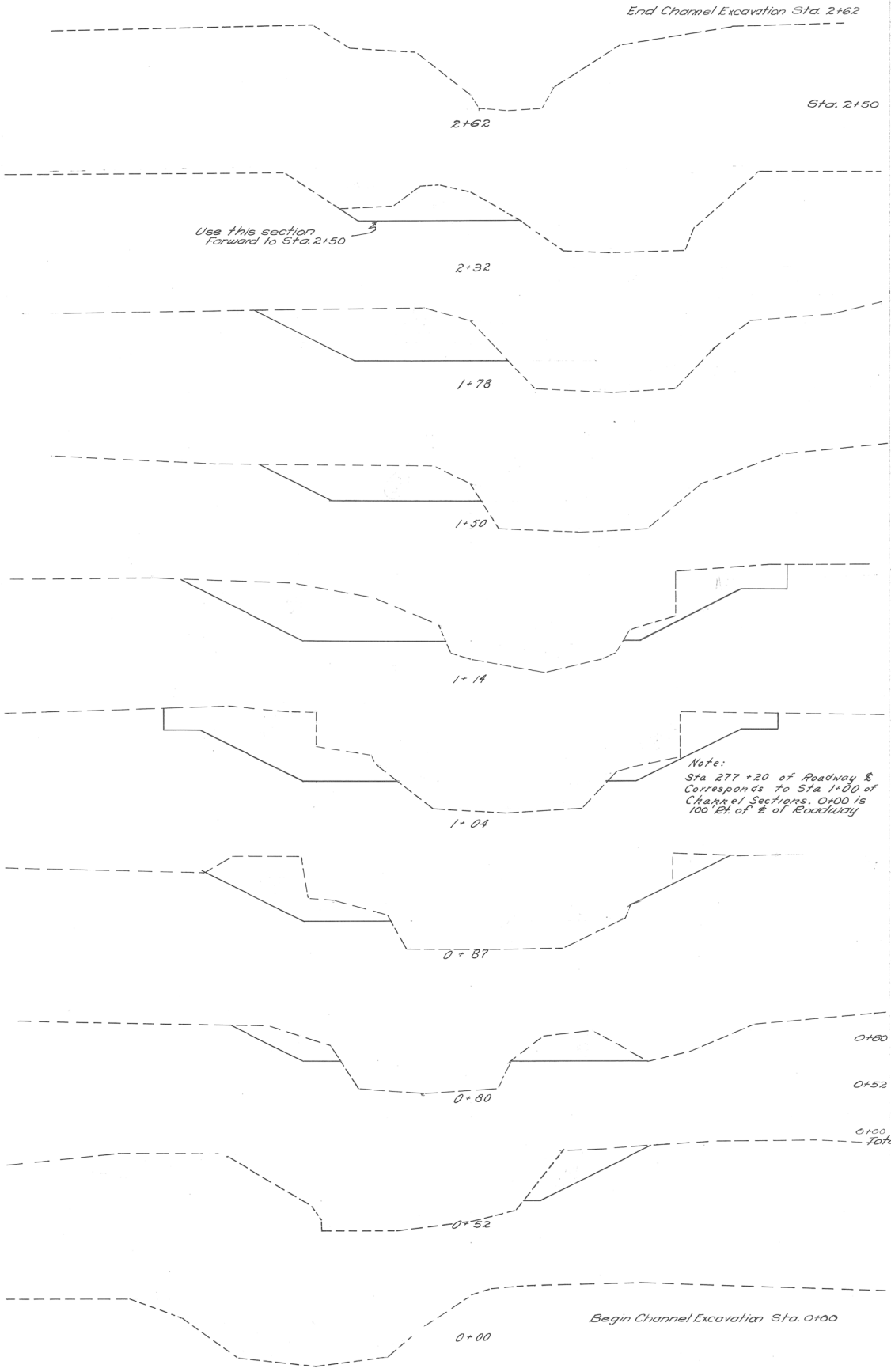
Van Wert County
S.R. 49' Sec. Van.-49-5.17






50 45 40 35 30 25 20 15 10 5 SURVEY 5 10 15 20 25 30 35 40 45
Seeding
Width Sq. Yd.
End Areas CU Yds.
Cut Fill Cut Fill
Sta. 277+75 0 92
Use this section at Sta 277+75
0 48
63
3.59
Const. ℄
802.00
277+60.37
801.00
Back of Abutment
0 84
15" 794.16
15" 794.08
62
3.92
Use this section at Sta. 276+65
0 71
798.50
802.00
276+79.63
801.00
Back of Abutment
15" 795.16
15" 793.20
304
34 Sq. Yd. Sod
270
0 42
34 Sq. Yd. Sodding
Sta. 276+65 0 85
Sta. 276+35 to Sta. 276+60 Rt.
Sod Ditch Bottom 6' Wide
Sta. 276+00 to Sta. 276+25 Lt.
Sod Ditch Bottom 6' Wide.
Drive at Sta 276+31
18 69
4.02
96
49 102
12" F.L. 795.50
Standard 1-2B C.B.
Sta. 276+20 34' Lt.
Grate Elev. 797.00
Deduct for drive 94 yds.
802.00
276+45
800.00
Standard 1-2B C.B.
Sta. 276+45 43' Rt.
Grate Elev. 794.75
12" F.L. 793.50
Add For Drive
Sta. 276+31
64 177
7
373
4.12
97
28 110
797.75
802.00
276+00
799.75
795.50
978
98 374
3.95
85
25 92
798.25
802.00
275+00
799.97
796.00
861
91 265
3.78
70
24 51
798.75
802.03
274+00
800.79
797.40
667
81 107
3.66
50
20 7
800.75
802.66
273+00
802.20
800.75
Begin Project - Sta. 272+50
Begin New Pavement - Sta. 272+50
Begin Earthwork - Sta. 272+25
Begin Work - Sta. 271+00
Sta. 272+50 10 4
29 7
278
2
0
802.50
802.00
272+00
804.10
271+00
806.07
3427 Total
VAN WERT COUNTY
S.R. 49 SEC. VAN-49-5.17
S-124(3)
TYPE FUNDS
PAGE NO.
TOTAL PAGES
5
11


50 45 40 35 30 25 20 15 10 5 ℄ SURVEY 5 10 15 20 25 30 35 40 45
Seeding
Width Sq.Yd.
End Areas Cu. Yds.
Cut Fill Cut Fill
R/W
285+00
808.08
284+00
805.46
Sta. 283+50 0 0
END WORK - STA. 284+50
END EARTHWORK - STA. 283+50
END NEW PAVEMENT - STA. 283+00
END PROJECT - STA. 283+00
Constr. ℄
+1.97
801.00
801.50
803.25
283+00
802.99
31 7
17 7
74 63
+2.00
798.00
800.00
802.14
282+00
801.38
9 27
16 167
+2.15
797.50
798.50
802.00
281+00
800.43
21 63
72 293
+2.57
797.00
798.00
802.00
280+00
799.90
18 95
74 378
Sta. 279+00 22 109
131 400
+2.99
796.50
797.50
802.00
279+00
799.79
Sta. 278+00 49 107
23 92
Sta. 277+75 0 92
1050
-60
990
Sq. Yd. Sod
60 Sq. Yd. Sodding
Sta. 277+65 to Sta. 278+10 Lt.
Sod Ditch Bottom 6' Wide
Sta. 277+65 to Sta. 278+10 Rt.
Sod Ditch Bottom 6' Wide
+3.24
796.00
12" Pipe
F.L. 794.50
Standard 1-2B C.B.
Sta. 278+00
Grate Elev. 795.75
802.00
278+00
800.04
Standard 1-2B C.B.
Sta. 278+00
Grate Elev. 796.50
F.L. 794.50
Sta. 277+60.37
Total
VAN WERT COUNTY
S.R. 49 SEC. VAN-49-5.17
5-124(3)
TYPE PAVEMENT
WIDE 11 6



	End Area Cut	End Area Fill	Cu Yds. Cut	Cu Yds. Fill
End Channel Excavation Sta. 2+62	0	0		
			10	0
Sta. 2+50	43	0		
			29	0
	43	0		
			150	0
	107	0		
			91	0
	69	0		
			147	0
	152	0		
			54	0
	138	0		
			67	0
	73	0		
			16	0
0+80	52	0		
			42	0
0+52	29	0		
			28	0
0+00	0	0		
Totals =			634	0

VAN WERT COUNTY
S.R. 49 SEC. VAN-49-5.17

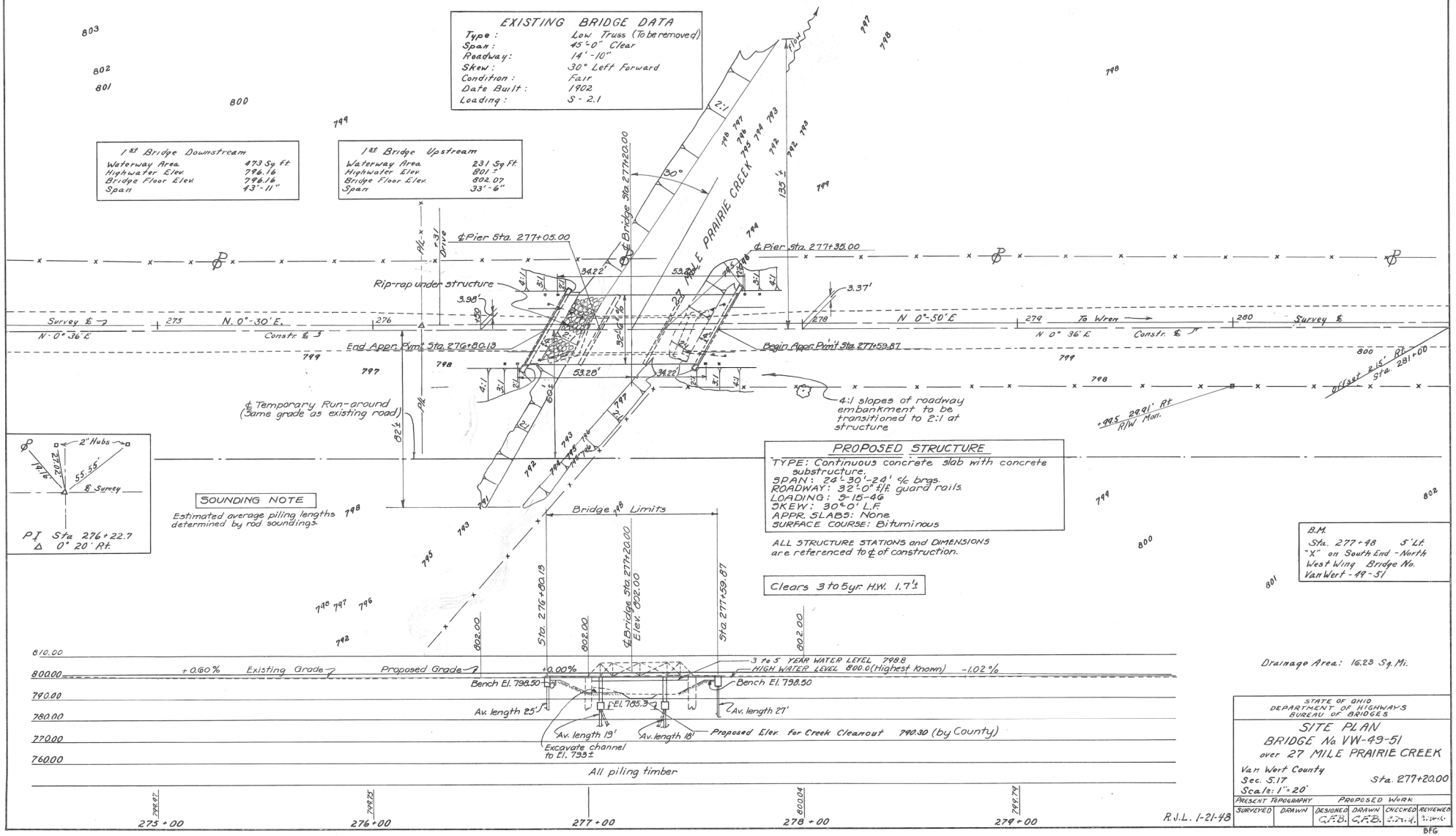
S-124(3)

TYPE FUNDS WORK UNIT

7
11

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR	
2	OHIO	S-124(3)	POST WAR	8 / 11

Van Wert County
Van 49 - 5.17
0.24 Mi. ± S. of Wren



STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN
BRIDGE No. VW-49-51
over 27 MILE PRAIRIE CREEK

Van Wert County
Sec. 5.17 Sta. 277+20.00
Scale: 1" = 20'

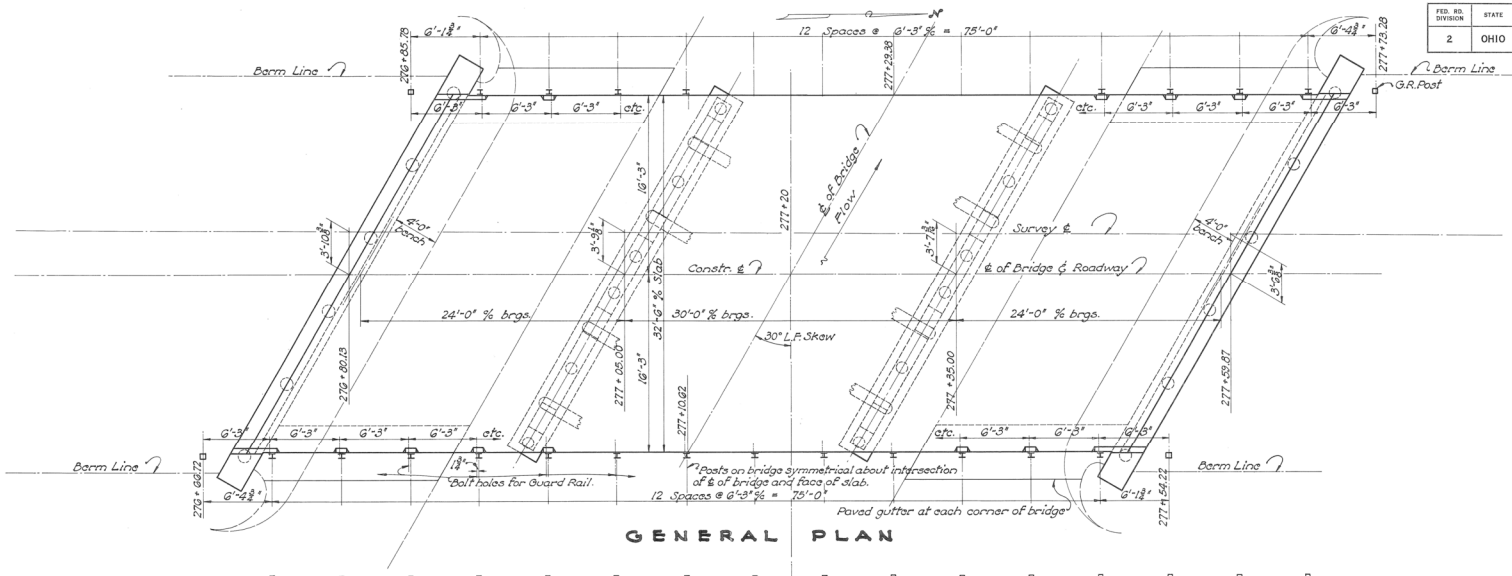
PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
		C.F.B.	C.F.B.	J.T.L.	J.W.L.

DFG

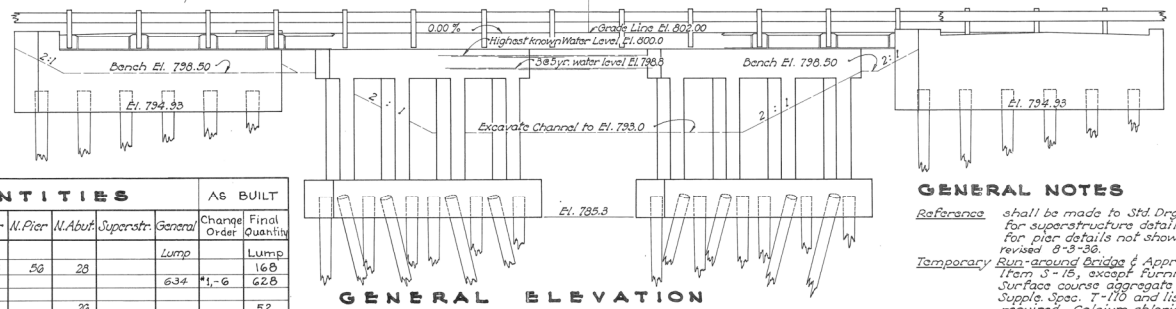
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	S 124 (3)	POST WAR

9 / 11

VAN-49-5.17



GENERAL PLAN



GENERAL ELEVATION

ESTIMATED QUANTITIES

Item	Total	Unit	Description	S.Abut.	S.Pier	N.Pier	N.Abut.	Superstr.	General	As Built: Change Order	As Built: Final Quantity
E-2	Lump	Sum	Cofferdams, cribs and sheeting						Lump		Lump
E-2	198	Cu.Yd.	Unclassified excavation	28	56	56	28				168
E-3	634	Cu.Yd.	Channel excavation						634	*1,-6	628
S-1	52	Cu.Yd.	Class 'C' concrete, abutments	26			26				52
S-1	20	Cu.Yd.	Class 'C' concrete, pier caps and columns		10	10					20
S-1	28.8	Cu.Yd.	Class 'C' concrete, pier footings		14.4	14.4					28.8
S-1	107.3	Cu.Yd.	Class 'C' concrete, superstructure					107.3			107.3
S-3	288	Sq.Yd.	Type 'C' waterproofing					288			288
S-4	49821	Lb.	Reinforcing steel	2590	7788	7788	2590	25922	143		49,821
S-9	16	Sq.Ft.	½" Premolded expansion joint filler	8			8				16
S-14	159.5	Lin.Ft.	Railing (Type T-1513 with steel posts)					159.5			159.5
S-15	Lump	Sum	Temporary run around bridge and approaches						Lump		Lump
S-16	Lump	Sum	First test pile						Lump		Lump
S-18	310	Lin.Ft.	Timber piling, creosoted	150			160			*1,+25.17	335.17
S-18	370	Lin.Ft.	Timber piling, untreated, (12" min.)		190	180				*1,+22.67	392.67
S-18	32	Each	Steel pile points	6	10	10	6				32
S-24	Lump	Sum	Removal of existing structure						Lump		Lump
I-10	40	Sq.Yd.	Type 'A' riprap						40		40
I-14	77	Lin.Ft.	Concrete paved gutter	38.5			38.5				77
T-35	20	Cu.Yd.	Asphaltic concrete surface course, Type 1 (or C)					20			20
T-110	820	Cu.Yd.	Surface course for run-around approaches						820	*1,-74.85	745.15
M-10	16	Tons	Calcium chloride for surface course of run-around approaches						16		16

GENERAL NOTES

Reference shall be made to Std. Drg. CS-1-47 revised 1-20-48, for superstructure details not shown; AP-1-47 dated 9-18-47, for pier details not shown; and to Supplemental Spec. T-110 revised 8-3-36.

Temporary Run-around Bridge & Approaches shall be paid for as lump sum under Item S-15, except furnishing and placing approach surface course. Surface course aggregate shall be paid for per cu.yd., governed by Supple. Spec. T-110 and listed thereunder, except that rolling will be required. Calcium chloride applied to surface course shall be paid for per ton under Item M-10. Amount of surface material applied and paid for to be as directed by the Engineer. Embankment to be substantially in accordance with E-1.05 with side slopes not steeper than 1½ to 1. Existing bridge may be used for run-around.

Removal of Existing Bridge: Existing Superstructure, when no longer needed for run-around, shall be match-marked for re-erection and piled at the site for disposal by the Van Wert County Engineer. Existing substructure shall be removed by the Contractor to 1'-0" below proposed ground line, and disposed of by the Contractor as directed by the Engineer.

Paved Gutters: Concrete gutters 5'-0" wide, 6" thick, depressed 6" at center, shall be placed on earth bench and down the slope of the proposed embankment to El. 793, and centered under the edges of the deck. ⅝" φ bars at 1'-6" centers, both directions, included in the price per lineal foot.

Excavation Quantity includes the removal of fill material between top of earth bench and bottom of abutment crossbeam.

Piles shall be driven to a minimum bearing capacity of 20 tons each.

Surface Course: A 2½" asphaltic concrete surface course, Item T-35, shall be laid in two 1¼" courses.

RM 2-15-61

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES AND RAILROAD CROSSINGS

GENERAL PLAN & ELEVATION NOTES AND QUANTITIES

BRIDGE NO. VW-49-51
27 MILE PRAIRIE CREEK
VAN WERT CO STA. 277+20
SEC. VAN-49-5.17

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
V.A.E.	V.A.E.	J.W.S.	R.J.C.	BFG	4-18-49	

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	S 124 (3)	POST WAR

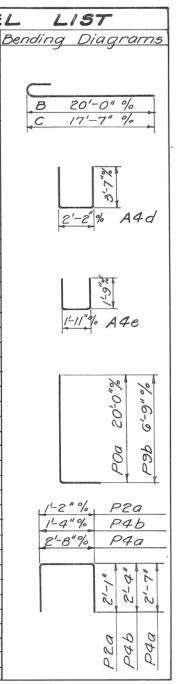
10
11

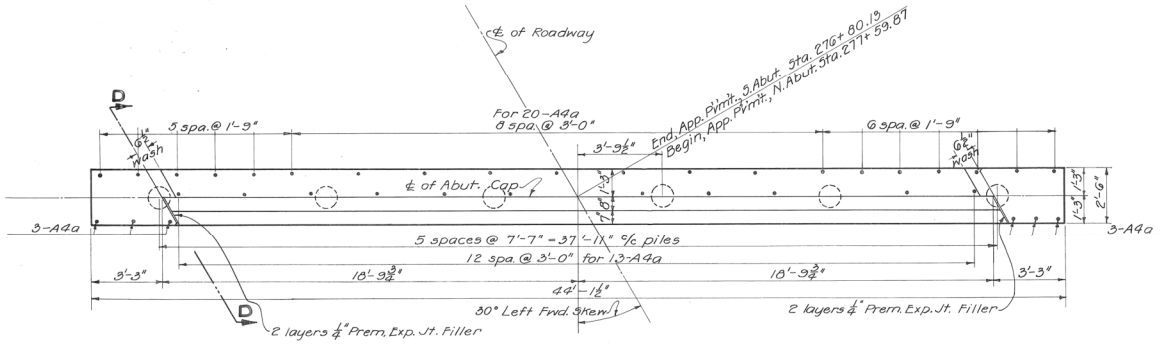
VAN-49-5.17

REINFORCING STEEL LIST

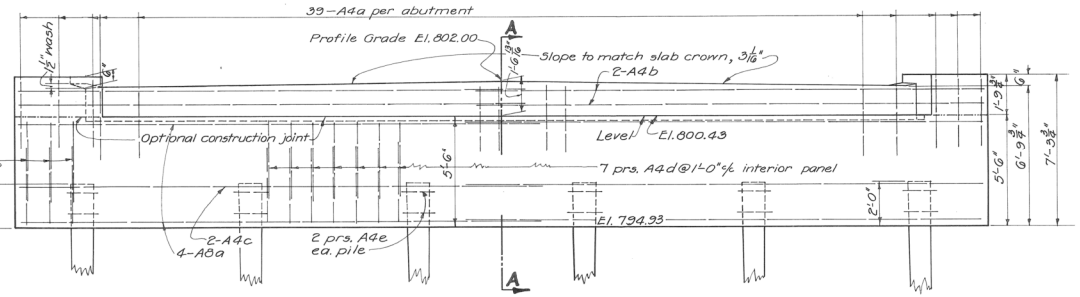
Mark	Size	No.	Length	Weight	Shp.
SUPERSTRUCTURE					
A	1"φ	84	28'-6"	6392	S
B	1"φ	28	21'-1"	1576	B
C	1"φ	28	18'-8"	1396	B
D	1"φ	14	19'-3"	720	S
E	1"φ	14	16'-0"	598	S
F	1"□	60	22'-3"	4539	S
G	1"□	30	12'-9"	1301	S
H	1"□	30	10'-0"	1020	S
J	3/4"φ	30	17'-6"	789	S
K	3/4"φ	18	17'-0"	383	S
L	3/4"φ	76	36'-11"	4214	S
M	3/4"φ	54	36'-11"	2994	S
ABUTMENTS					
A8a	1"□	32	23'-6"	2558	S
A4a	3/4"φ	78	3'-0"	244	S
A4b	3/4"φ	16	23'-0"	384	S
A4c	3/4"φ	8	23'-6"	196	S
A4d	3/4"φ	164	9'-0"	1539	B
A4e	3/4"φ	48	5'-2"	259	B
PIERS					
P0a	1 1/4"□	16	21'-5"	1821	B
P0b	1 1/4"□	24	14'-8"	1871	S
P8a	1 1/4"□	48	20'-6"	4235	S
P8b	1 1/4"□	64	8'-0"	2203	B
P9c	1 1/4"□	64	11'-3"	3098	S
P4a	3/4"φ	116	7'-7"	917	B
P4b	3/4"φ	80	5'-9"	400	B
P2a	1"φ	280	5'-1"	951	B
REPLACEMENT STEEL					
RE-0	1 1/2"□	1	8'-3"	44	S
RE-9	1 1/2"□	1	7'-9"	33	S
RE-8	1"□	1	7'-6"	26	S
RE-7	1"φ	1	7'-6"	20	S
RE-5	3/4"φ	1	6'-6"	10	S
RE-4	3/4"φ	1	6'-0"	6	S
RE-2	1/2"φ	1	5'-8"	4	S

Bending Diagrams

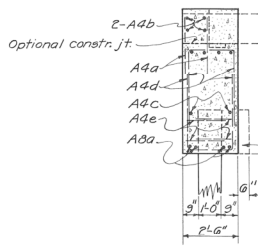




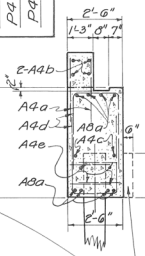
PLAN — ABUTMENT PILE-CAP



ELEVATION — ABUTMENT PILE-CAP



SECTION D-D



SECTION A-A

At Option and Expense of Contractor: 6" ledge may be cast with abutment, to support falsework.

All earth fill around abutments shall be made full height of earth bench. Excavation then shall be made for abutment cap, after which piling shall be driven. If bottom forms for abutment are used, they shall be left in place.

All reinforcing steel to be 2" clear of face of concrete unless shown otherwise.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES AND RAILROAD CROSSINGS

ABUTMENT DETAILS REINFORCING STEEL LIST

BRIDGE NO. VW-49-51
27 MILE PRAIRIE CREEK

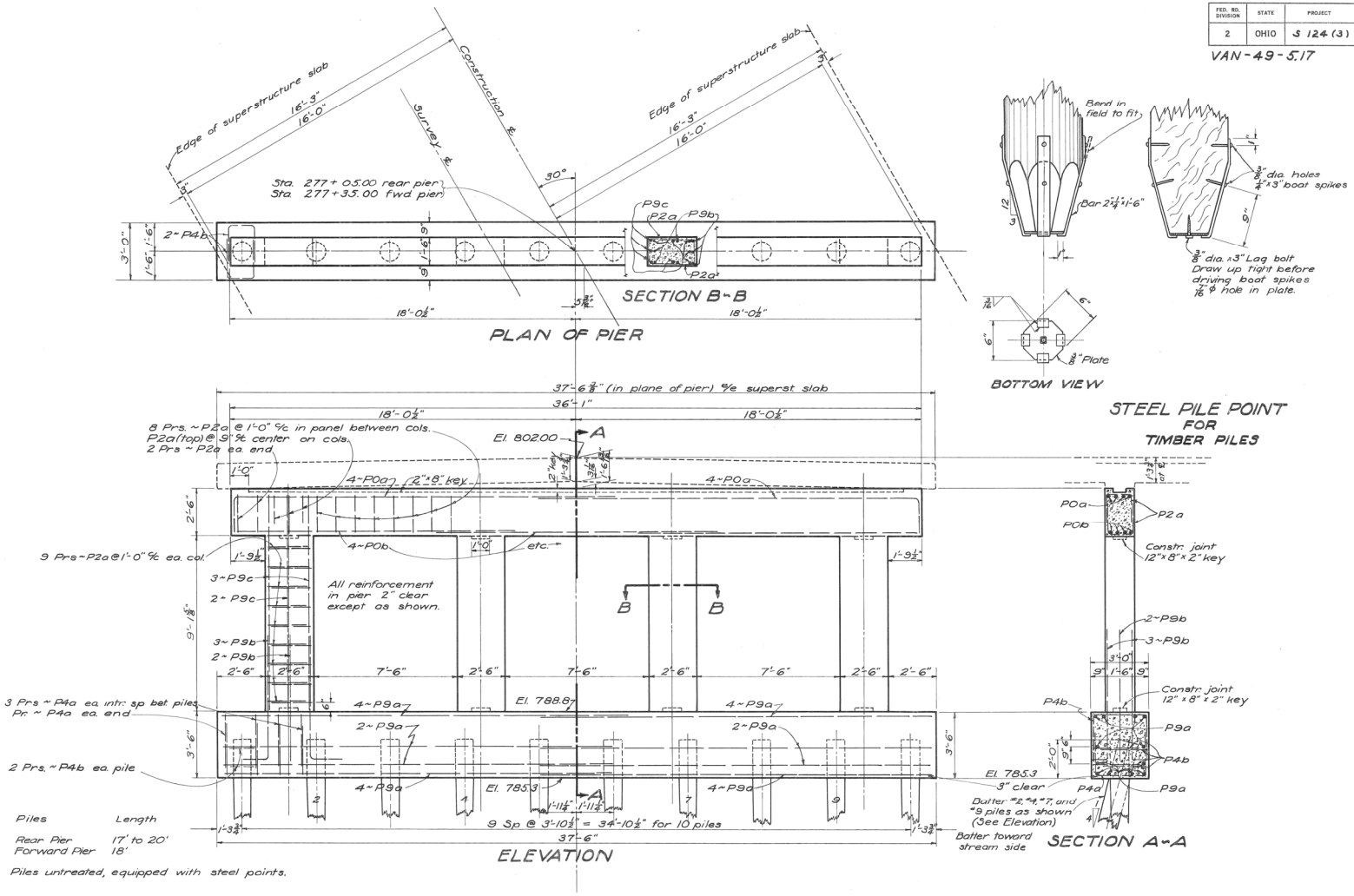
VAN WERT CO.
VAN 49-5.17 STA. 277+20

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
V.A.E.	V.A.E.	K.E.T.	E.J.C.	BFG CRH	1-18-49	

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	S 124 (3)	POST WAR

11/11

VAN-49-5.17



STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES AND RAILROAD CROSSINGS

PIER DETAILS
BRIDGE No. VW-49-51
27 MILE PRAIRIE CREEK
VAN WERT Co. Van-49-5.17
Sta. 277+30

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
V.A.E.	V.A.E.	R. W. B.	E.J.C.	BFG BFG	4-18-49	