MICROFILMED
DEC 29 1986

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
AUG - 25 - 5.05

I-196 (5)

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-196 (5)	

1 / 466

AUGLAIZE COUNTY
AUG-25-5.05

501

AUGLAIZE COUNTY
PUSHETA AND DUCHOUQUET TOWNSHIPS
ALLEN COUNTY, SHAWNEE TOWNSHIP
GRADE SEPARATION WITH
NEW YORK CENTRAL RAILROAD

NOV 20 1961
GROUND PHOTOLAB

CONVENTIONAL SIGNS

COUNTY LINE
TOWNSHIP LINE
SECTION LINE
CORPORATION LINE
PROPERTY LINE
FENCE LINE
CENTER LINE
POLE LINE
RAILROAD
HEDGE
DRAIN PIPE (NEW)
DRAIN PIPE (OLD)
GUARD RAIL (NEW)
GUARD RAIL (OLD)
TREES & STUMPS (TO BE REMOVED)
R/W LINE

℄ Power ℄ Telephone

LINE DATA

	FEDERAL PARTICIPATION
BEGIN WORK (I-196 (5)) STA. 316+10.00	
BEGIN PROJECT (I-196 (5)) STA. 317+00.00	
STATION EQUATION STA. 664+49.66 (Back) = STA. 660+47.66 (Ahead) = (+) 402.22 Lin. Ft.	
END PROJECT (I-196 (5)) STA. 701+75.00	
STATION EQUATION STA. 708+84.06 (Back) = STA. 0+00.00 (Ahead)	
END WORK (I-196 (5)) STA. 6+70	90.00 LIN.FT. @ Begin Work 1379.08 LIN.FT. @ End Work
ADD FOR APPROACHES	
TEMPORARY EXIST. U.S.R.25 CONNECTION - STA. 149+00 to STA. 169+12 (A) =	2012.00 LIN.FT.
EXIST. U.S.R. 33 OVERHEAD APPROACH STA. 650+00 to STA. 679+60 =	2160.00 LIN.FT.
MIDDLE PIKE OVERHEAD APPROACH STA. 6+00 to STA. 23+25 =	1725.00 LIN.FT.
EXIST S.R. 67 OVERHEAD APPROACH STA. 104+00 to STA. 130+00 =	2600.00 LIN.FT.
HENGSTLER ROAD OVERHEAD APPROACH - STA. 7+00 to STA. 24+25 =	1725.00 LIN.FT.
BUCKLAND-HOLDEN OVERHEAD APPROACH STA. 6+50 to STA. 25+00 =	1650.00 LIN.FT.
NATIONAL ROAD OVERHEAD APPROACH STA. 4+78.41 to STA. 22+00 =	1721.59 LIN.FT.
FEDERAL NON-PARTICIPATION	15,262.67 LIN.FT.
TEMPORARY EXIST. U.S.R. 25 CONNECTION - STA. 99+88.96 to STA. 149+00 =	4911.04 LIN.FT.
NATIONAL ROAD OVERHEAD APPROACH STA. 3+28.64 to Sta. 4+78.41 =	149.77 LIN.FT.
NET LENGTH OF PROJECT (FEDERAL PARTICIPATION) =	38,877.22 LIN.FT OR 7.363 MI.
NET LENGTH OF WORK (FEDERAL PARTICIPATION) =	54,139.89 LIN.FT. OR 10.253 MI.
NET LENGTH OF WORK (FEDERAL NON-PARTICIPATION) =	5060.81 LIN.FT OR 0.958 MI.
TOTAL LENGTH OF WORK (FEDERAL & NON-FEDERAL PARTICIPATION) =	59200.70 LIN. FT. OR 11.212 MI.

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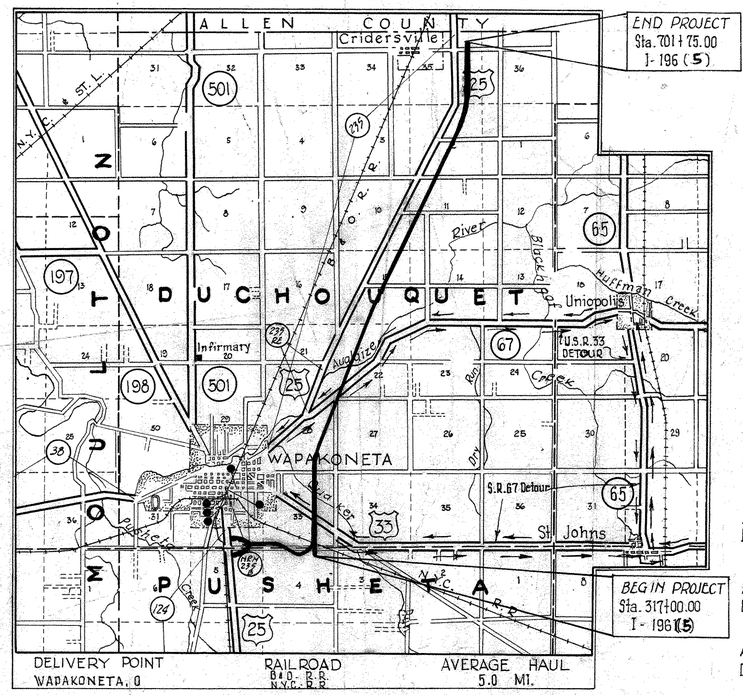
383A



LOCATION PLAN
SCALE 1" = 1 MILE

PORTION TO BE IMPROVED
STATE HIGHWAYS
OTHER ROADS
DETOUR

SCALES

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

STANDARD DRAWINGS			
No.	Date	No.	Date
R.P. No 1	7-2-56	DR-1	1-3-55
OS-2	7-1-55	R1-1	1-3-55
L-2	4-1-50	T-35	1-2-56

STANDARD DRAWINGS			
No.	Date		
I-21-23	8-1-56		
L-1	4-1-50		
L-3	4-1-50		
L-3-A	4-1-50		
B-T-71R	3-2-53		
T-J	5-1-56		
L-J No 1	7-1-55		
S-27 P.C.3	2-20-45		
S-27 P.C.4	1-4-54		
I-8 CB I-2A & B	5-1-52		
I-8 C.B. I-3 & I-4	5-1-52		
I-8 C.B. 2-3 & 2-4	5-1-52		
I-8 C.B. No 3-A	5-1-52		
I-1, 2, 3, 4 & 5	2-20-45		
I-12	7-1-54		
I-14 G	1-22-52		

STANDARD DRAWINGS	
No.	Date
I-15 No 1	8-1-55
I-15 No 2	12-1-54
I-15 No 2-A	7-2-56
G-7.07	6-1-56
B.T. 50.70 -71 E No 1	10-1-47
S.P. 53	7-21-53
AS-1-54	12-1-54
RB-1-55	3-1-55
R. P. No 2	9-14-56
R. P. No 3	9-14-56
I-8 I No 1	5-1-52
I-8 CB No 2-2A & B	5-1-52
I-8 M.H. No. 3	5-1-52
CSB-1-55 (Shts 1, 2 & 8)	7-16-56

SUPPLEMENTAL SPECIFICATIONS			
No.	Date	No.	Date
B-119 Rev.	6-30-56	18 Rev.	9-7-55
L-209.12	7-17-54	M-106.6(d)	11-30-54
M-110.27	9-9-52	I-112	9-15-56
M-109.23 Rev.	4-20-56	S-114	8-30-55
5	6-6-55		
M-206.6 (b)	5-25-56		

APPROVED DATE 10-8-56 — Angus L. Purdy — DIVISION DEPUTY DIRECTOR.

APPROVED DATE 11-14-56 — John F. Hiery — DEPUTY DIRECTOR OF PLANNING & PROGRAMMING.

APPROVED DATE 11-5-56 — O.K. Overman — ENGINEER OF BRIDGES.

APPROVED DATE 11-7-56 — E.S. Gaston — ENGINEER OF LOCATION & DESIGN

APPROVED DATE 11-7-56 — K.J. Gerold — DEPUTY DIRECTOR OF DESIGN & CONSTRUCTION

APPROVED DATE 11-15-56 — V.P. Schaublin — FIRST ASSISTANT DIRECTOR

APPROVED DATE 11-15-56 — S.O. Rumpf — DIRECTOR OF HIGHWAYS

NOV 20 1961
GROUND PHOTOLAB

PRINT APPROVED DATE 11-15-56 — F.H. SIMPSON, CHIEF ENGINEER FOR NEW YORK CENTRAL RAILROAD

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR OF HIGHWAYS IN ACCORDANCE WITH THE PROVISIONS OF SEC. 5511.02 OF THE REVISED CODE OF OHIO.

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 NECESSARY 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 OF THE HIGHWAYS TO TRAFFIC, EXCEPT AS NOTED ON SHEET No. 17, AND THAT THE PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED:

DISTRICT ENGINEER — DATE

FILE NUMBER
AUGLAIZE COUNTY - AUG - 25 - 5.05
DATE OF LETTING
CONTRACT No.

4R75

5.05-13.29

MICROFILMED
DEC 29 1986

SCHEMATIC PLAN

SCALE 1" = 1000'

0 1000 2000

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

2/466

AUGLAIZE COUNTY
AUG-25-5.05

B.&O. R.R.
Exist. U.S.R. 25
℄ Future Proposed Ramp "B"
℄ Proposed Ramp "A"
℄ Future Proposed Ramp "D"
℄ Proposed Ramp "C"
N.Y.C. (T&OC)
U.S.R. 25 Truck Route
U.S.R. 33
U.S.R. 25
WAPAKONETA
AUGLAIZE RIVER
PUSHETA TWP.
T.6S - R.6E. - Sec. 4
Temporary Connection
℄ Service Road (Canning Factory)
Canning Factory Rd.
PC. Sta. 137+08.96
PT. Sta. 134+23.36
T.S. Sta. 132+85.75
S.C. Sta. 134+85.90
Sta. 8+58.00 Begin Work
Exist U.S.R. 33
Middle Pike
DUCHOUQUET TWP.
T.5S. - R.6E. - Sec. 33
DUCHOUQUET TWP.
T.5S. - R.6E. - Sec. 28
Sta. 6+00 Begin Work
P.I. Sta. 387+85.80
Sta. 106+00 Begin Work
Exist U.S.R. 25
SEC. LINE
DUCHOUQUET TWP.
T.5S. - R.6E. - Sec. 21
DUCHOUQUET TWP.
T.5S. - R.6E. - Sec. 16
DUCHOUQUET TWP.
T.5S. - R.6E. - Sec. 9
DUCHOUQUET TWP.
T.5S - R.6E - Sec. 15
DUCHOUQUET TWP.
T.5S - R.6E - Sec. 10
DUCHOUQUET TW.
Sec. 3 - T.5S - R.6E
Sta. 371+71.58
Sta. 13+00 Middle Pike
Sta. 24+25 End Work
Sta. 310+10.70
Begin Work
Sta. 316+10
Sta. 231+10.49
Sta. 8+70.60 End Work
Sta. 369+29.02 US 33
Cemetery Rd.
Sec. Line
C.S.S. Sta. 174+85.70
S.C. Sta. 176+85.70
Prop. Future U.S.R. 33
PUSHETA TWP.
T.6S - R.6E - Sec. 3
PC. Sta. 191+02.83
PT. Sta. 201+20.25
Begin Project Sta. 317+00
I-196(5)
DUCHOUQUET TWP.
T.5S. - R.6E. - Sec. 34
Middle Pike
P.C. Sta. 377+25.61
P.T. Sta. 389+22.27
Bank Work
Sta. 426+67.00
Sta. 3+50 Begin Work
Sta. 427+67.00
Sta. 4+00 Tie Out
Sta. 102+86.82 - State Route 67
Sta. 13+00 End Work
Sta. 130+00 End Work
Block Pike
DUCHOUQUET TWP.
T.5S - R.6E - Sec. 27
DUCHOUQUET TWP.
T.5S. - R.6E. - Sec. 22
AUGLAIZE RIVER
Exist S.R. 67
P.C. Sta. 405+12.74
P.I. Sta. 409+04.41
P.I. Sta. 491+66.75
Sta. 7+00 Begin Work
Sta. 513+00.10
Sta. 15+00 Hengstler Rd.
Sta. 24+25 End Work
Exist U.S.R. 25
Hengstler Rd.
Cul-de-Sac
Sta. 6+50 Begin Work
Buckland-Bringville-Holden Rd.
Seitz-Holden Connection
Sta. 602+87.54
Sta. 25+00 End Work
Sta. 572+66.01
DUCHOUQUET TWP.
T.5S - R.6E - Sec. 11
DUCHOUQUET TWP.
T.5S RGE - Sec. 14
Seitz Rd.
PROP. CURVE DATA
P.I. Sta. 387+85.80
Δ = 20°58' Rt.
D = 1°0'
T = 1060.19'
L = 2096.66'
E = 97.26'
R = 5729.58'
PROP. CURVE DATA
P.I. Sta. 491+66.75
Δ = 6°26 Rt.
D = 0°30'
T = 644.01'
L = 1286.67'
E = 18.08'
R = 19,459.16'
I-196(5)
SEC. LINE
CRIDERSVILLE
Sta. 701+75
END PROJECT
AUG-25-13.29-ALL-25-0.00
COUNTY LINE
DUCHOUQUET TWP.
T5S - R6E - SEC. 2
DUCHOUQUET TWP.
T4S - R6E - Sec. 35
ALLEN COUNTY
SHAWNEE TWP.
T4S - R6E - SEC. 27
PROP. CURVE DATA
P.I. Sta. 691+14.45
Δ = 27°14'21"
D = 1°00'
T = 1387.9'
L = 2723.33'
E = 166.70'
R = 5729.58'
P.C. Sta. 677+26.55
P.T. Sta. 664+39.22
Back
=Sta. 660+47.66 Ahead
Sta. 7+40 Begin Work
Ex. U.S.R. 25
Sta. 18+61.5 - End Work
Exist U.S.R. 25
(Begin Work)
Sta. 4+03.59 - National Rd. ~
Sta. 13+00 Exist U.S.R. 25
Sta. 6+50 Begin Work
Buckland-Holden Rd.
Sta. 602+87.54 = Sta. 15+00
Buckland-Holden Rd.
Sta. 25+00 End Work
Sta. 632+87.54
Temporary Run-a-Round
Cul-de-Sac
End Work
Sta. 6+70
Sta. 687+98.33 = Sta. 11+50
National Road
Sta. 22+00 - End Work
National Road
Sta. 208+40.02 Back
=Sta. 0+00 Ahead
Buckland-Bringville-Holden Rd.
Freymuth Rd.
Mud Jack Rd.
P.I. Sta. 651+14.45
DUCHOUQUET TWP.
T5S - R6E - SEC. 12
DUCHOUQUET TWP.
T5S - R6E - SEC. 1
DUCHOUQUET TWP.
T4S - R6E - SEC. 36
ALLEN COUNTY
SHAWNEE TWP.
T4S - R6E - SEC. 26

SCHEMATIC PLAN

TYPICAL SECTIONS FOR U.S.R. 25

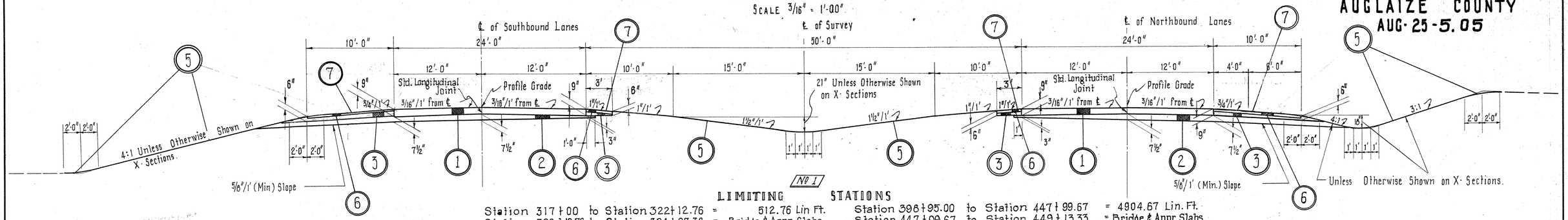
TYPE · T-71

SCALE 3/16" = 1'-00"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

3/466

AUGLAIZE COUNTY
AUG-25-5.05

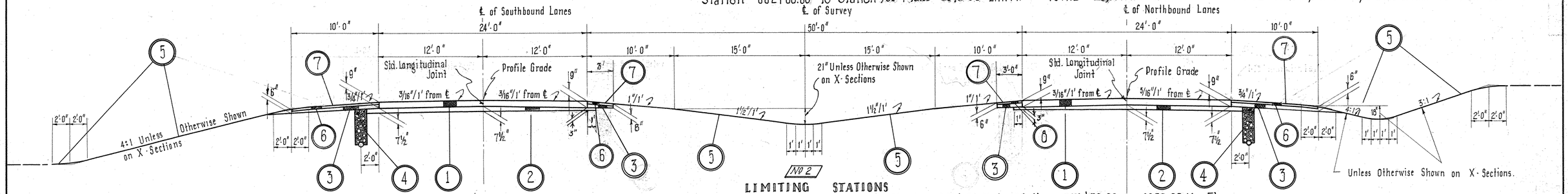


№ 1

LIMITING STATIONS

Station 317+00	to Station 322+12.76	= 512.76 Lin Ft.	Station 398+95.00	to Station 447+99.67	= 4904.67 Lin. Ft.
Station 322+12.76	to Station 324+07.38	= Bridge & Appr. Slabs	Station 447+99.67	to Station 449+13.33	= Bridge & Appr. Slabs
Station 324+07.38	to Station 337+00.00	= 1292.62 Lin. Ft.	Station 449+13.33	to Station 484+50.00	= 3536.67 Lin. Ft.
Station 345+00.00	to Station 361+00.00	= 1600.00 Lin. Ft.	Station 499+25.00	to Station 506+00.00	= 675.00 Lin. Ft.
Station 371+50.00	to Station 375+75.00	= 425.00 Lin. Ft.	Station 524+00.00	to Station 636+23.00	= 11,223.00 Lin. Ft.
			Station 662+00.00	to Station 701+75.00 = 3975.00	Lin. Ft. — TOTAL = 28,144.72 Lin. Ft.

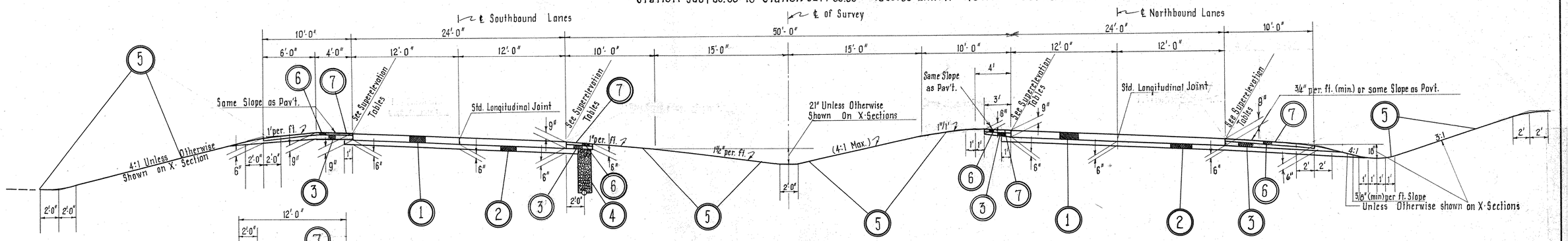
NOTE: T-31 to be Dropped ¼" below Edge of T-71
NOTE: Max Depth I-4 Pipe Underdrains 6.8'-Min 3.5'



№ 2

LIMITING STATIONS

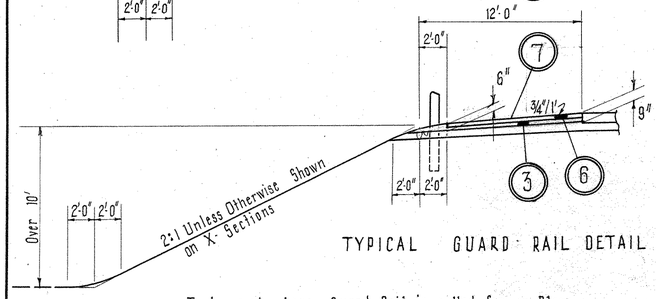
Station 337+00.00 to Station 345+00.00 = 800.00 Lin. Ft.
Station 361+00.00 to Station 371+50.00 = 1050.00 Lin. Ft.
Station 506+00.00 to Station 524+00.00 = 1800.00 Lin. Ft. — TOTAL = 3650.00 Lin. Ft.



№ 3

LIMITING STATIONS

Station 375+75.00 to Station 398+95.00 = 2320.00 Lin. Ft.
Station 484+50.00 to Station 499+25.00 = 1475.00 Lin. Ft.
Station 636+23.00 to Station 664+49.88 = 2826.88 Lin. Ft.
STATION EQUATION Sta. 664+49.88 (Back) = Sta. 660+47.66 (Ahead)
Station 660+47.66 to Station 662+00.00 = 152.34 Lin. Ft. — TOTAL = 6774.22 Lin. Ft.



TYPICAL GUARD RAIL DETAIL

To be used where Guard Rail is called for on Plans.

7 ITEM T-31 Bituminous Seal Coat consisting of 0.25 Gal./Sq.Yd. of Bituminous Material and 0.008 Cu.yds. of No.6 Aggregate per Sq.yd. (See Note in Proposal.)

1. ITEM T-71 9" Reinforced Portland Cement Concrete Pavement
2. ITEM I-22 6" Subbase except as Otherwise Shown.
3. ITEM I-18 Stabilized Crushed Aggregate for Shoulders or Approaches
4. ITEM I-4 6" Pipe Underdrains
5. ITEM L-9 Seeding & Protecting
6. ITEM B-33 3" Bituminous Macadam Base Course, Type "A" or "B".

SEE STABILIZED SHOULDER DETAIL SHEET
FOR MORE DETAILS

TYPICAL SECTIONS FOR U.S.R. 25

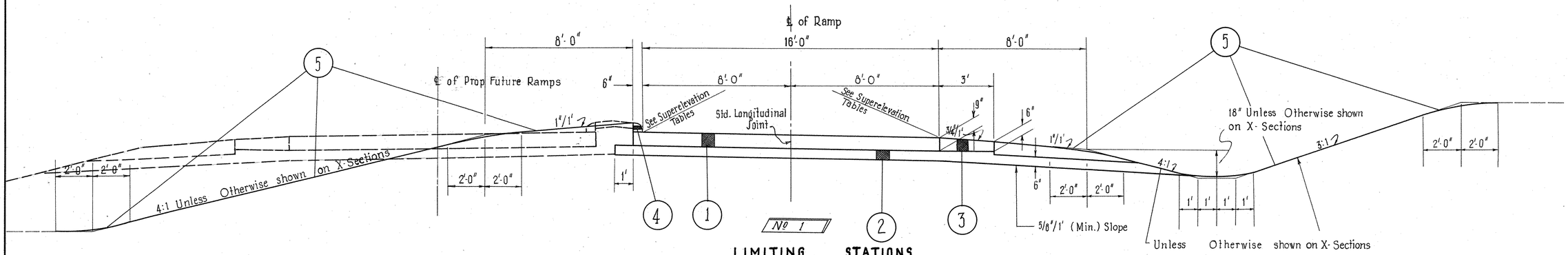
TYPICAL SECTIONS
FOR RAMPS ON PROP. U.S.R. 33 & EXIST. U.S.R. 25 INTERCHANGE
TYPE T-71

Scale: 3/8" = 1'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

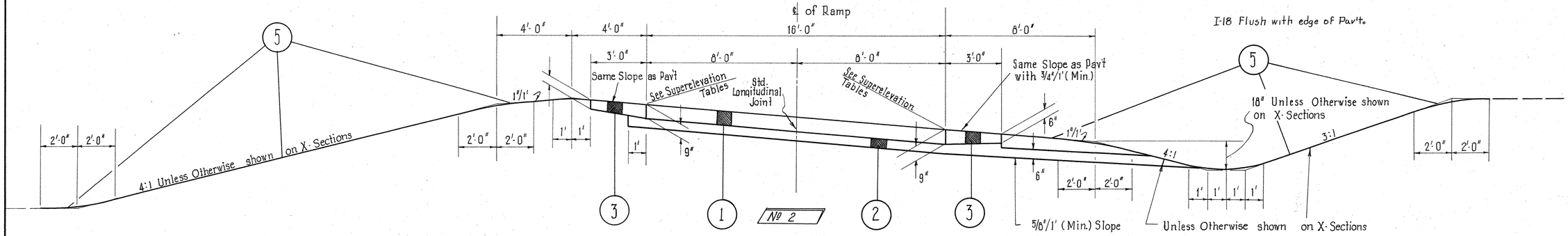
4 / 466

AUGLAIZE COUNTY
AUG-25-5.05



LIMITING STATIONS

Station	0+11 (A)	to	Station	0+74 (A)	=	See Detail
Station	0+74 (A)	to	Station	5+26 (A)	=	452.00 Lin. Ft.
Station	0+11.04 (D)	to	Station	0+53.24 (D)	=	See Detail opposite hand
Station	0+53.24 (D)	to	Station	8+81 (D)	=	727.76 Lin. Ft. opposite hand



LIMITING STATIONS

Station	5+26 (A)	to	Station	15+22.5 (A)	=	996.50 Lin. Ft.
Station	15+22.5 (A)	to	Station	17+73.42 (A)	=	See Detail
Station	8+81 (D)	to	Station	17+89.81 (D)	=	908.81 Lin. Ft.
Station	17+89.81 (D)	to	Station	21+92.92 (D)	=	See Detail

~ CODE ~

(1) ITEM T-71 9" Reinforced Portland Cement Concrete Pavement.
(2) ITEM 1-22 6" Subbase except under 1-18
(3) ITEM 1-18 Stabilized Crushed Aggregate Shoulders and Approaches
(4) ITEM 1-12 Standard Concrete Curb, Type 2A
(5) ITEM L-9 Seeding & Protecting

TYPICAL SECTIONS FOR RAMPS ON PROP U.S.R. 33 & EXIST U.S.R. 25

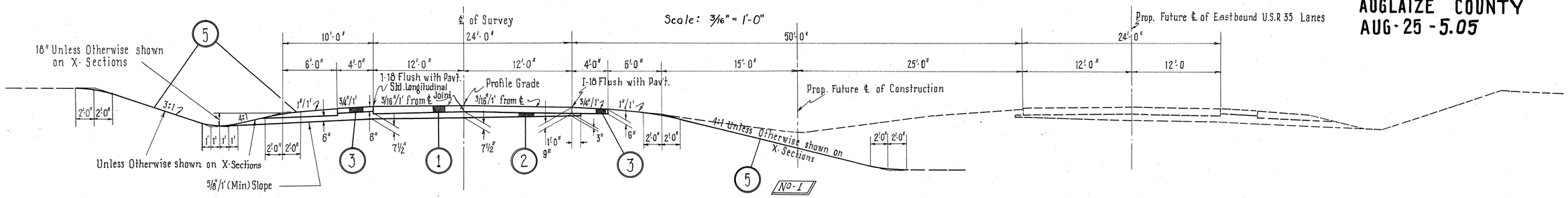
TYPICAL SECTIONS EXIST. U.S.R. 25 & PROP. U.S.R. 25 CONNECTION
TYPE T-71

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

5
466

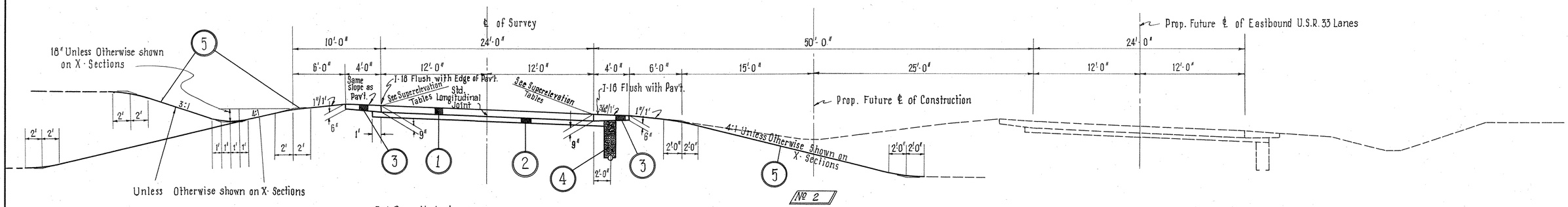
AUGLAIZE COUNTY
AUG-25-5.05

Scale: 3/16" = 1'-0"



LIMITING STATIONS

Station 114 + 41 to Station 136 + 50 = 2209.00 Lin. Ft.
TOTAL = 2209.00 Lin. Ft.

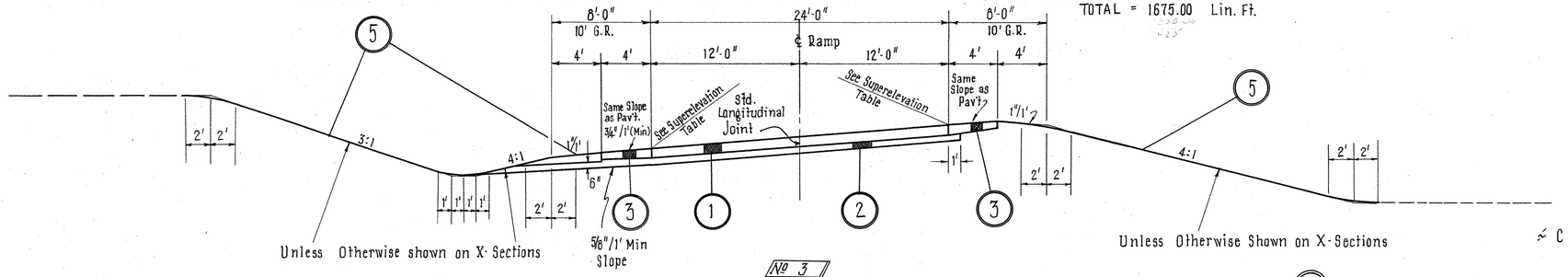


LIMITING STATIONS

Station 136 + 50 to Station 152 + 50 = 1600.00 Lin. Ft.
Station Equation Sta. 152+50 (Back) = Station 152+50 (A) (Ahead)
Station (A) to Sta. 153+25 (A) = 75.00 Lin. Ft.
TOTAL = 1675.00 Lin. Ft.

I-4 Pipe Underdrains
Max Depth 5.3ft - Min Depth 4.7 ft

Sta 149+00 BEGIN FEDERAL PARTICIPATION I-FUNDS



LIMITING STATIONS

Station Equation Sta-152+50 (Back) = Sta. 152+50 (A)
Station 153 + 25 (A) to Station 167+35.88 (A) = 1410.88 Lin. Ft.
Station 167 + 35.88 to Station 171+37.49 (A) = See Detail

≈ CODE ≈

1. ITEM T-71 9" Reinforced Portland Cement Concrete Pavement.
2. ITEM 1-22 6" Subbase except as Otherwise shown.
3. ITEM 1-18 Stabilized Crushed Aggregate for Shoulders or Approaches.
4. ITEM 1-4 6" Pipe Underdrain
5. ITEM L-9 Seeding & Protecting

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

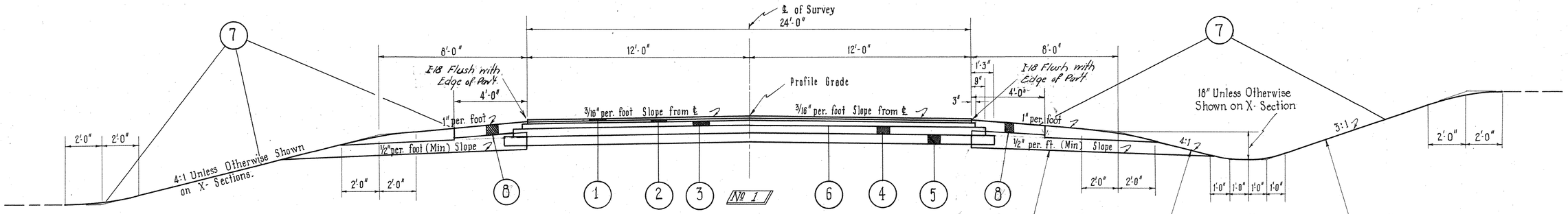
6
466

AUGLAIZE COUNTY
AUG-25-5.05

TYPICAL SECTIONS FOR EXIST. U.S.R. 33

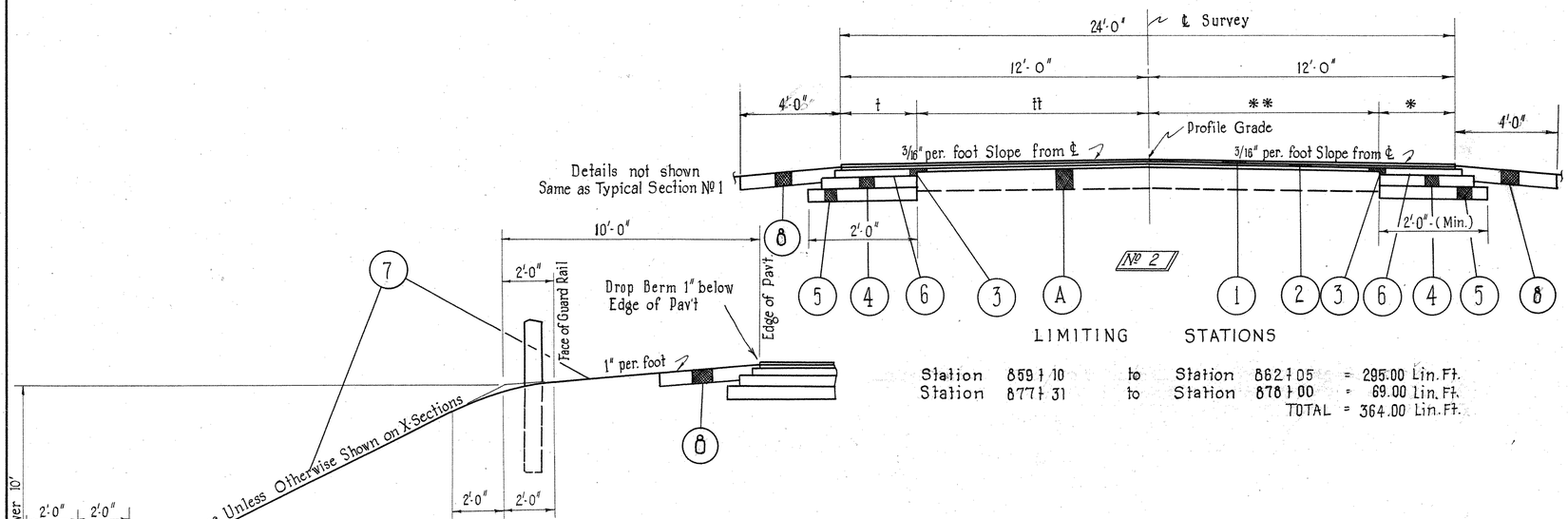
TYPE - T-35

SCALE: - 3/8"=1'0"



LIMITING STATIONS

Station	862+05	to	Station	866+95.34	= 490.34	Lin.Ft.
Station	866+95.34	to	Station	870+10.70	= Bridge ℄ Appr. Slab	
Station	870+10.70	to	Station	877+31.	720.30	Lin.Ft.
				TOTAL	= 1210.64	Lin.Ft.



TYPICAL GUARD RAIL SECTION

This Typical Section to be used where Guard Rail is called for on Plans.

LIMITING STATIONS

Station	859+10	to	Station	862+05	= 295.00	Lin.Ft.
Station	877+31	to	Station	878+00	= 69.00	Lin.Ft.
				TOTAL	= 364.00	Lin.Ft.

†	Sta. 859+10	to	Sta. 862+05	Max. 2.0';	Min. 1.5'
	Sta. 877+31	to	Sta. 878+00	Max. 1.7';	Min. 1.5'
*	Sta. 859+10	to	Sta. 862+05	Max. 2.3';	Min. 2.0'
	Sta. 877+31	to	Sta. 878+00	Max. 2.5';	Min. 2.2'
**	Sta. 859+10	to	Sta. 862+05	Max. 1.0';	Min. 9.7'
	Sta. 877+31	to	Sta 878+00	Max. 9.6';	Min. 9.5'
††	Sta. 859+10	to	Sta. 862+05	Max. 10.5';	Min. 10.0'
	Sta. 877+31	to	Sta 878+00	Max. 10.5';	Min. 10.3'

Details not shown Same as Typical Section №1

* CODE *

(1) ITEM T-35 1¼" Asphaltic Concrete Surface Course, Type "A" (70-80)

(2) ITEM B-35 1¼" Asphaltic Concrete Leveling Course, (70-80)

(3) ITEM B-35 3" Asphaltic Concrete Base Course, (70-80) except on Typical Section № 2 Thickness Varies 0" to 3" over existing Pavement

(4) ITEM B-119 6" Crushed Aggregate Base Course, except on Typical Section No.2 Thickness Varies 0" to 8" over existing Pavement.

(5) ITEM I-22 6" Subbase, except on Typical Section № 2 Thickness Varies 0" to 8" over existing Pavement.

(6) ITEM T-30 Bituminous Prime Coat (Sec. M-5.7. R.T. 2 or 3 or Sec. M-5.3, M.C.-0 or 1 at 0.35 Gal. per Sq.Yd. *or Sec. M-5.2, RC-1 or RC-2)*

(7) ITEM L-9 Seeding & Protecting

(A) Existing 20' of T-35 Asphaltic Concrete Surface Course on Plain Concrete Pavement..

(8) ITEM 1-18 6" Stabilized Crushed Aggregate Shoulders and Approaches.

TYPICAL SECTIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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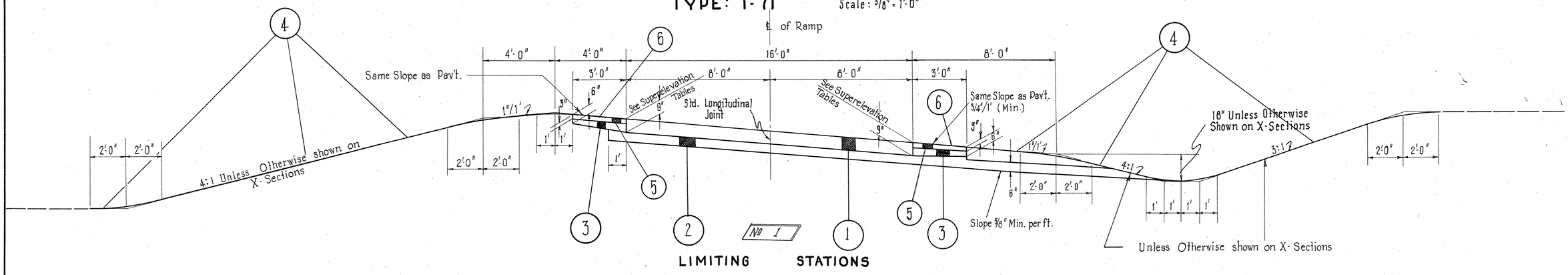
466

AUGLAIZE COUNTY
AUG-25-5.05

TYPICAL SECTIONS
FOR RAMPS AT EXISTING U.S.R. 33 & PROP. U.S.R. 25 INTERCHANGE

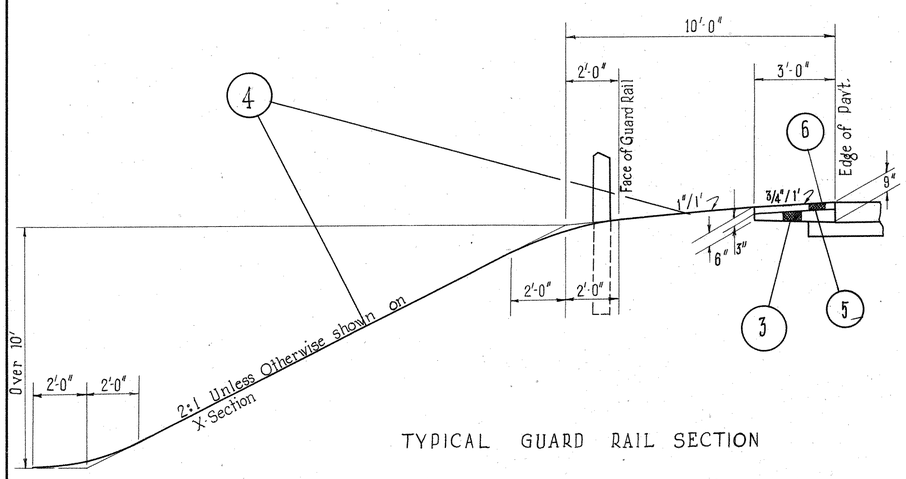
TYPE: T-71 Scale: 3/8" = 1'-0"



LIMITING STATIONS

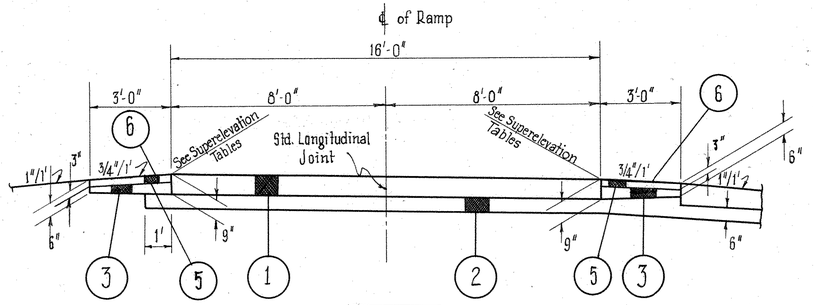
Station	0+00 (A)	to Station 3+66.87 (A)	=	See Detail Sheet
Station	3+66.87 (A)	to Station 6+17.98 (A)	=	251.11 Lin. Ft.
Station	0+00 (B)	to Station 3+66.54 (B)	=	See Detail Sheet
Station	3+86.54 (B)	to Station 5+30 (B)	=	143.46 Lin. Ft.
Station	9+95.41 (B)	to Station 14+27.74 (B)	=	432.33 Lin. Ft.
Station	14+27.74 (B)	to Station 17+37.74 (B)	=	See Detail Sheet

Station	0+00 (C)	to Station 3+86.54 (C)	=	See Detail Sheet
Station	3+86.54 (C)	to Station 5+30 (C)	=	143.46 Lin. Ft.
Station	10+00 (C)	to Station 14+27.74 (C)	=	427.74 Lin. Ft.
Station	14+27.74 (C)	to Station 17+37.74 (C)	=	See Detail Sheet.
Station	0+00 (D)	to Station 3+66.87 (D)	=	See Detail Sheet.
Station	3+66.87 (D)	to Station 6+17.98 (D)	=	251.11 Lin. Ft.



TYPICAL GUARD RAIL SECTION

To be used where Guard Rail is called for on Plans at Ramps.



LIMITING STATIONS

Station	6+17.98 (A)	to Station 8+24.69 (A)	=	206.71 Lin. Ft.
Station	8+24.69 (A)	to Station 8+76.69 (A)	=	See Detail Sheet
Station	5+30 (B)	to Station 7+39.27 (B)	=	See Detail Sheet
Station	7+39.27 (B)	to Station 9+95.41 (B)	=	256.14 Lin. Ft.
Station	5+30 (C)	to Station 7+39.27 (C)	=	See Detail Sheet
Station	7+39.27 (C)	to Station 10+00 (C)	=	260.73 Lin. Ft.
Station	6+17.98 (D)	to Station 8+24.69 (D)	=	206.71 Lin. Ft.
Station	8+24.69 (D)	to Station 8+76.69 (D)	=	See Detail Sheet

Note: Drop T-31 1/4" below Edge of Pavement.

~ CODE ~

1. ITEM T-71 9" Reinforced Portland Cement Concrete Pavement
2. ITEM 1-22 6" Subbase except under 1-18 & 1-21 depth variable
3. ITEM 1-18 Stabilized Crushed Aggregate Shoulders and Approaches.
4. ITEM L-9 Seeding and Protecting.
5. ITEM B-35 3" Bituminous Macadam Base Course, Type "A" or "B".
6. ITEM T-31 Bituminous Seal Coat consisting of 0.25 Gals/Sq.Yd. of Bituminous Material and 0.008 cu.yds. of No.6 aggregate per Sq.yd. (See note in Proposal)

TYPICAL SECTIONS EXISTING U.S.R. 33 INTERCHANGE

TYPICAL SECTIONS
MIDDLE PIKE & HENGSTLER RD.
BUCKLAND ~ BINGVILLE ~ HOLDEN ROAD

TYPE: T-35
Scale 3/8" = 1'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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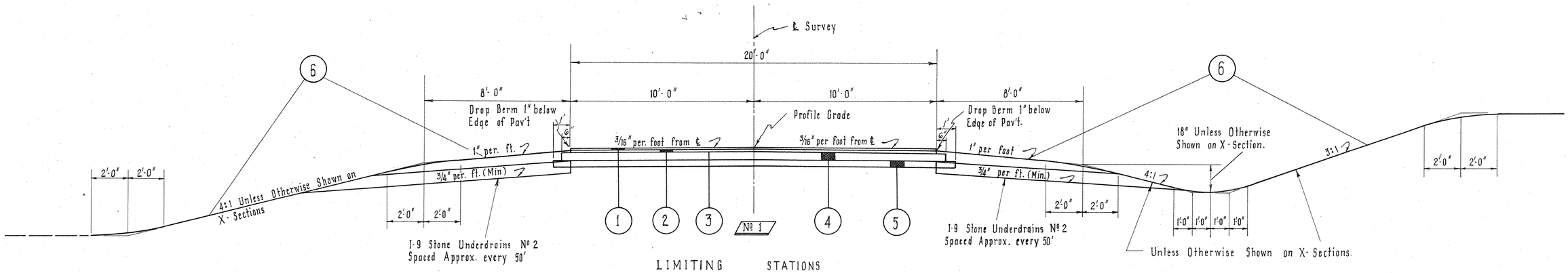
466

AUGLAIZE COUNTY
AUG -25- 5.05



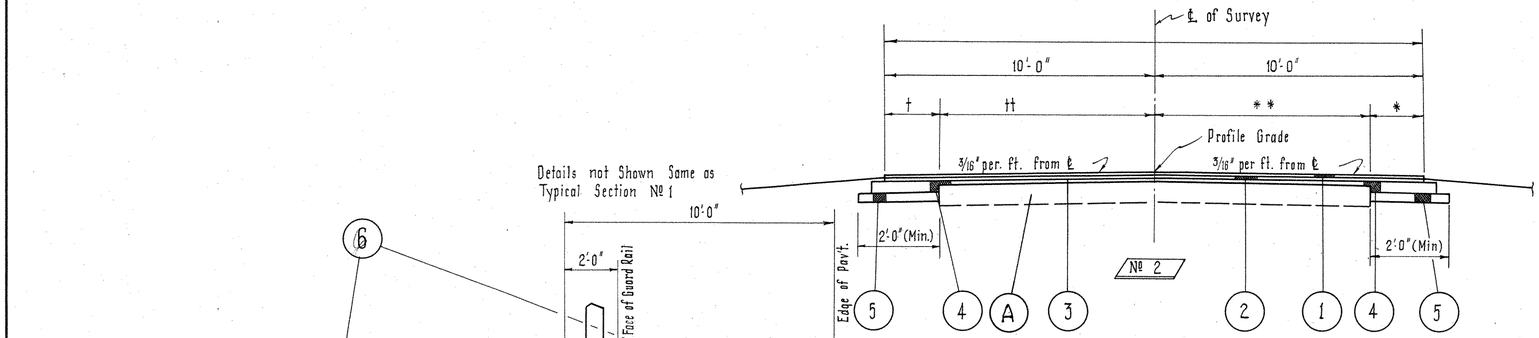
LIMITING STATIONS

Sta. 9+35 To Sta. 13+51.46 = 416.46 Lin. Ft. Hengstler Road.
Sta. 13+51.46 To Sta. 16+46.54 = Bridge & Approach Slabs Hengstler Road
Sta. 16+46.54 To Sta. 22+50 = 601.46 Lin.Ft. Hengstler Road
Total 1017.92 Lin.Ft.

Sta 7+67 To Sta. 13+51.45 = 564.45 Lin.Ft. Buckland-Holden Road
Sta 13+51.45 To Sta. 16+46.55 = Approach Slabs & Bridge Limits
Sta. 16+46.55 To Sta. 21+00 = 451.45 Lin. Ft. Buckland Holden Road
Total = 1035.90 Lin. Ft.

Sta. 6+50 to Sta. 13+69.75 = 519.75 Lin. Ft. (Middle Pike)
Sta. 13+69.75 to Sta. 16+30.25 = Approach Slabs & Bridge Limits
Sta. 16+30.25 to Sta. 21+75 = 544.75 Lin. Ft. (Middle Pike)
Total = 1064.50 Lin. Ft.

†	Sta. 7+62 to Sta. 7+67	Buckland-Bingville-Holden Road	0.8'
	Sta. 7+66 to Sta. 8+50	Middle Pike	0.0 to 0.5'
	Sta. 21+75 to Sta. 22+27	Middle Pike	0.1' to 0.2'
††	Sta. 7+62 to Sta. 7+67	Buckland-Bingville-Holden Road	9.2'
	Sta 7+66 to Sta. 8+50	Middle Pike	9.5' to 10.0'
	Sta. 21+75 to Sta. 22+27	Middle Pike	9.8' to 9.9'
**	Sta. 7+62 to Sta. 7+67	Buckland-Bingville-Holden Road	7.6'
	Sta 7+66 to Sta. 8+50	Middle Pike	7.6'
	Sta. 21+75 to Sta. 22+27	Middle Pike	7.7' to 7.8'
*	Sta. 7+62 to Sta. 7+67	Buckland-Bingville-Holden Road	2.2'
	Sta. 7+66 to Sta. 8+50	Middle Pike	2.2
	Sta. 21+75 to Sta. 22+27	Middle Pike	2.2' to 2.3'



LIMITING STATIONS

Sta. 7+62 to Sta. 7+67 = 5 Lin. Ft. Buckland-Bingville-Holden Road.

Sta. 7+66 to Sta. 8+50 = 84 Lin.Ft. (Middle Pike)
Sta. 21+75 to Sta. 22+27 = 52 Lin.Ft. (Middle Pike)
Total = 136 Lin. Ft. (Middle Pike)

TYPICAL GUARD RAIL SECTION

This Typical Section to be used where Guard Rail is called for on plans.

~ CODE ~

1	ITEM T-35	1¼" Asphaltic Concrete Surface Course, Type "A", (70-80)
2	ITEM B-35	2" Asphaltic Concrete Leveling Course (70-80) except on Hengstler Rd. depth is 1½"
3	ITEM T-30	Bituminous Prime Coat (Sec. M-5.7, R.T. 2 or 3 or Sec. M-5.3, MC 0 or 1 at 0.35 Gals. per Sq. Yds. or Sec. M-5.2, RC-1 or RC-2)
4	ITEM B-119	5" Crushed Aggregate Base Course, except Typical Section № 2, Thickness Varies 0" to 5" over existing pavement.
5	ITEM I-22	4" Subbase, except Typical Section №2 Thickness Varies 0" to 4" over existing Pavement.
6	ITEM L-9	Seeding & Protecting
A	Bituminous Surface Traffic Bound Base.	

TYPICAL SECTIONS

TYPICAL SECTIONS FOR S.R. 67

TYPE T-35

Scale: 1/4" = 1'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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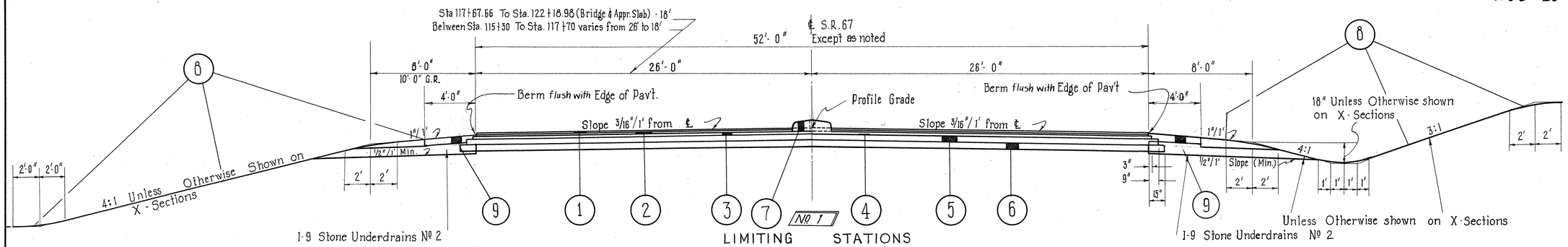
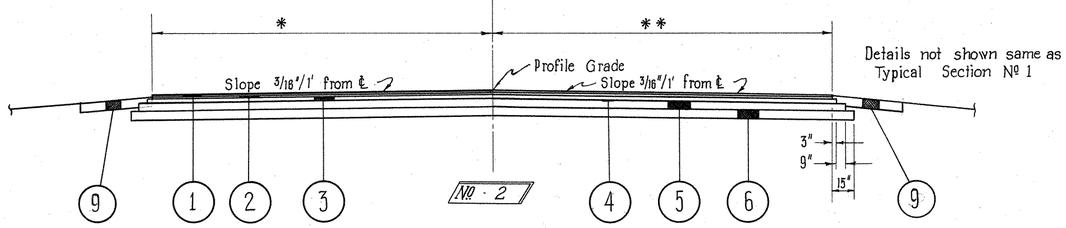
AUGLAIZE COUNTY
AUG-25-5.05



LIMITING STATIONS

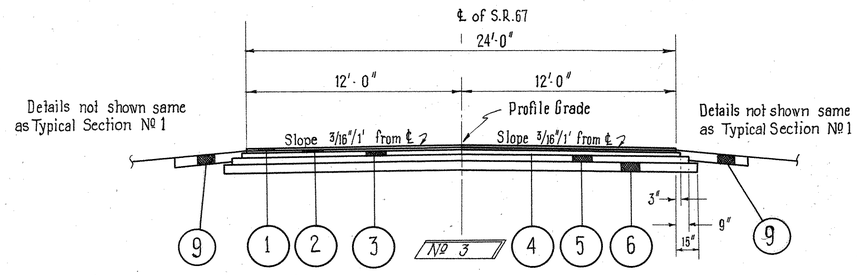
Station	115+03	to	Station	111+67.66	=	264.66 Lin. Ft.
Station	117+67.66	to	Station	122+18.98	=	Bridge & Approach Slabs

*	12' to 26'	Sta. 110+75.28	to Sta.	113+75.28
	26'	Sta 113+75.28	to Sta.	115+03
	18'	Sta. 122+18.98	to Sta.	122+44.83
**	12'	Sta 110+75.28	to Sta.	111+12.31
	12' to 24'	Sta. 111+12.31	to Sta.	113+12.31
	24' to 26'	Sta. 113+12.31	to Sta.	114+18.75
	26'	Sta. 114+18.75	to Sta.	115+03
	12'	Sta 122+18.98	to Sta.	124+23.83
†	3.0 to 4'	Sta 106+00	to Sta.	106+75
	0.5 to 8'	Sta 127+25	to Sta.	127+57
††	1' to 3'	Sta. 106+00	to Sta.	106+75
	5'	Sta. 127+25	to Sta.	127+57
*	16' to 12'	Sta. 122+44.83	to Sta.	124+23.83



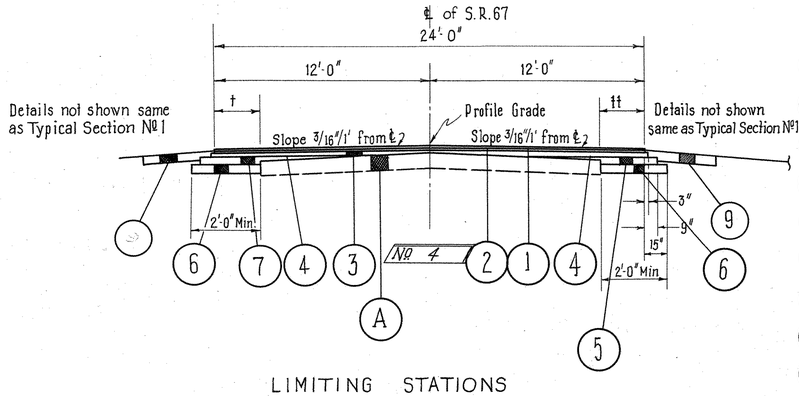
LIMITING STATIONS

Station	110+75.28	to	Station	115+03	=	427.72 Lin. Ft.
Station	122+18.98	to	Station	124+23.83	=	204.85 Lin. Ft.
				Total	=	632.57 Lin. Ft.



LIMITING STATIONS

Station	107+10	to	Station	110+75.28	=	365.28 Lin. Ft.
Station	124+23.83	to	Station	126+90.00	=	266.17 Lin. Ft.
				TOTAL	=	631.45 Lin. Ft.



LIMITING STATIONS

Station	106+00	to	Station	107+10	=	110.00 Lin. Ft.
Station	126+90.00	to	Station	127+57	=	67.00 Lin. Ft.
				TOTAL		177.00 Lin. Ft.

* CODE *

1	ITEM T-35 1¼" Asphaltic Concrete Surface Course, Type "A" (70-80)
2	ITEM B-35 1¼" Asphaltic Concrete Leveling Course (70-80)
3	ITEM B-35 3" Asphaltic Concrete Base Course (70-80)
4	ITEM T-30 Bituminous Prime Coat @ 0.35 Gal/Sq.Yd.
5	ITEM B-119 8" Crushed Aggregate Base Course
6	ITEM 1-22 8" Subbase.
7	ITEM 1-21 Standard Concrete Median Pavement, Type 2
8	ITEM L-9 Seeding & Protecting
A	Existing 19'-0" of Bituminous Surface (Open Graded Rd. Mix on Traffic Bound Base, 10"± total Thickness.
9	ITEM 1-18 Stabilized Crushed Aggregate Shoulders & Appr. 6" thick

TYPICAL SECTIONS FOR S.R. 67

TYPICAL SECTIONS

FOR RAMPS AT S.R. 67 & PROP. U.S.R 25

TYPE - T-71

Scale: 1/4" = 1'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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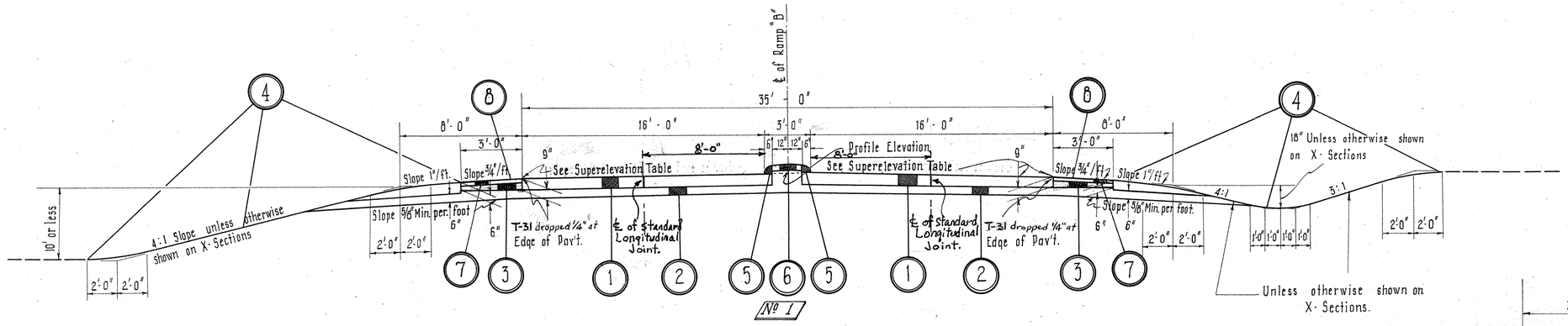
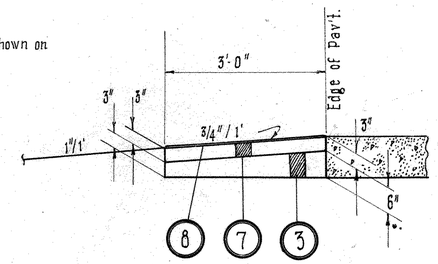
AUGLAIZE COUNTY
AUG-25-5.05



№ 1

LIMITING STATIONS

Station 15+02 (B)	to	Station 16+33.36 (B)	=	131.36 Lin Ft.
Station 16+33.36 (B)	to	Station 16+73.36 (B)	=	See Detail

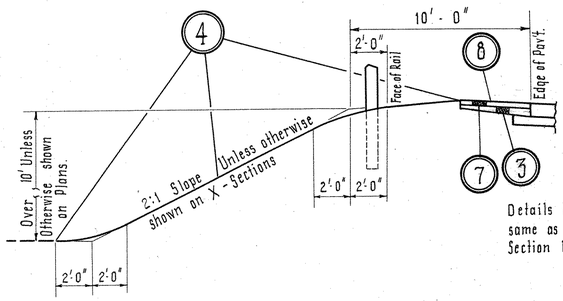


DETAIL OF STABILIZED SHOULDERS
Scale 3/4" = 1'

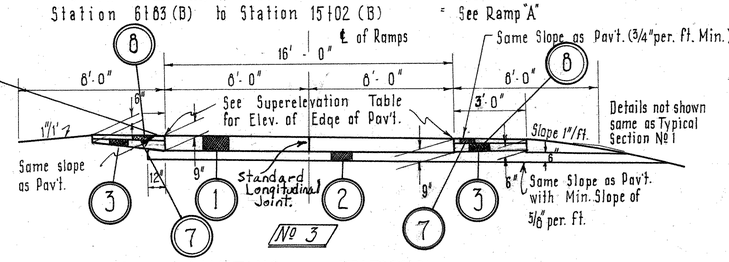
№ 2

LIMITING STATIONS

Station 3+89.0 (A)	to	Station 5+52.35 (A)	=	See Detail
Station 5+52.35 (A)	to	Station 10+29.14 (A)	=	476.79 Lin. Ft.
Station 10+29.14 (A)	to	Station 11+66 (A)	=	See Detail
Station 6+83 (B)	to	Station 15+02 (B)	=	See Ramp "A"



TYPICAL GUARD RAIL SECTION
to be used where Guard Rail is called for on Plans. for Ramps.



№ 3

LIMITING STATIONS

Station 0+00 (A)	to	Station 1+81.84 (A)	=	See Detail
Station 1+81.84 (A)	to	Station 3+89.0 (A)	=	207.16 Lin. Ft.
Station 11+66 (A)	to	Station 15+96 (A)	=	430.00 Lin. Ft.
Station 15+96 (A)	to	Station 17+56.62 (A)	=	See Detail
Station 0+00 (B)	to	Station 1+88.69 (B)	=	See Detail
Station 1+88.69 (B)	to	Station 6+83 (B)	=	494.31 Lin. Ft.
Station 0+00 (C)	to	Station 2+38.5 (C)	=	See Detail
Station 2+38.5 (C)	to	Station 15+71.76 (C)	=	1333.26 Lin. Ft.
Station 15+71.76 (C)	to	Station 18+49.75 (C)	=	See Detail
Station 0+00 (D)	to	Station 2+60 (D)	=	See Detail
Station 2+60 (D)	to	Station 7+56.43 (D)	=	496.43 Lin. Ft.
Station 7+56.43 (D)	to	Station 8+78.56 (D)	=	See Detail

CODE

1. ITEM T-71 9" Reinforced Portland Cement Concrete Pavement.
2. ITEM I-22 6" Subbase except under I-18 & I-21 depth variable
3. ITEM I-18 Stabilized Crushed Aggregate Shoulders and Approaches.
4. ITEM L-9 Seeding and Protecting
5. ITEM I-12 Concrete Curb, Type 2-A
6. ITEM I-21 Portland Cement Concrete Median Pavement, Type 1
7. ITEM B-33 3" Bituminous Macadam Base Course, Type "A" or "B" Sec. M-3.1, M-3.7, RT-1 or RT-2, or Sec. M-5.1, M-10.1 or Sec. M-12.6 Type 2
8. ITEM T-31 Bituminous Seal Coat Consisting of 0.25 Gal/Sq.Yd. of Bituminous Material and 0.008 Cu.yds. of No. 6 Aggregate per Sq.Yd. (See Note in Proposal) or Sec. M-5.5 RS-1 or RS-2 or Sec. M-5.12 CRS-2 and 0.008 Cu. Yds. of No. 8 Aggregate per Sq. Yd.

TYPICAL SECTIONS for RAMPS at S.R. 67 & PROP. U.S.R. 25

TYPICAL SECTIONS FOR BLANK RD. ~ S-R 67 CONNECTION ; BLANK RD. ~ CEMETERY RD. CONNECTION

TYPE - T-32

Scale 3/8" = 1'0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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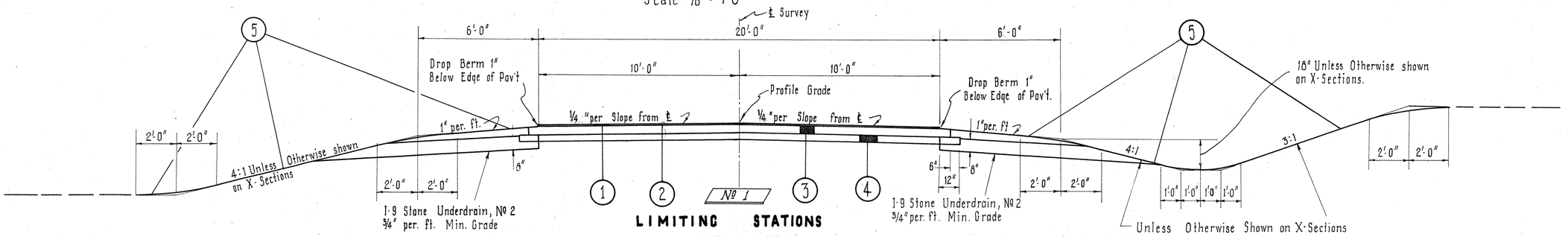
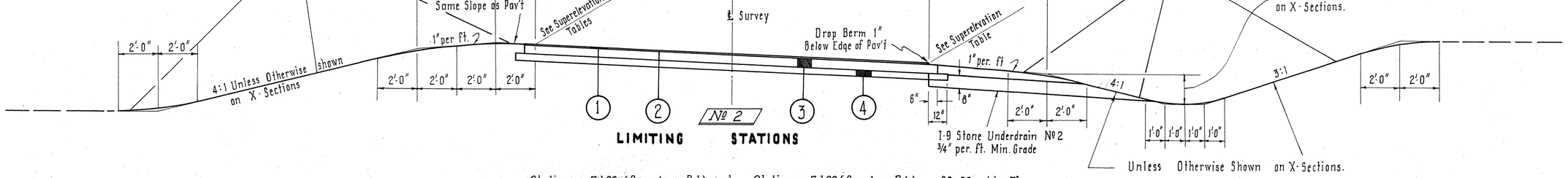
AUGLAIZE COUNTY
AUG-25-5.05



Station	0+10 (T)	to	Station	0+61.27 (T)	=	See Detail
Station	0+61.27 (T)	to	Station	1+75 (T)	=	113.73 Lin. Ft.
Station	6+50 (T)	to	Station	7+69.70 (T)	=	139.70 Lin. Ft.
Station	7+69.70 (T)	to	Station	8+39.70 (T)	=	See Detail



Station	7+00 (Cemetery Rd.)	to	Station	7+60 (Cemetery Rd.)	=	60.00 Lin. Ft.
Station	0+00 (S)	to	Station	12+97.78 (S)	=	1297.78 Lin. Ft.
Station	14+16.79 (Blank Pike)	to	Station	14+76.79 (Blank Pike)	=	60.00 Lin. Ft.
Station	1+75 (T)	to	Station	6+50 (T)	=	475.00 Lin. Ft.

*	Sta. 7+00 (Cemetery Rd.)	to	Sta. 7+60 (Cemetery Rd.)	Variable	10' to 69'
	Sta. 14+16.79 (Blank Pike)	to	Sta. 14+76.79 (Blank Pike)	Variable	10' to 9.5'
**	Sta. 7+00 (Cemetery Rd.	to	Sta. 7+60 (Cemetery Rd.)	Variable	10' to 7.2'
	Sta. 14+16.79 (Blank Pike	to	Sta. 14+76.79 (Blank Pike)	Variable	10' to 7.1

(1)	ITEM T-32	Aggregate for Road Mix use 0.0375 Cu.Yds. of #6 Aggregate per Sq.Yd. with 0.7 gal. of Bituminous Material (Sec. M-5.7 R.T.-8-9) or Sec. M-5.3 MC-4-5) or (Sec. M-5.12 CBAE-2-3) or (Sec. M-5.2 R.C.-2-3) per sq. yd. Under Item T-32 use for choke 0.004 Cu.Yds. of #9 Aggregate per Sq.Yd. and Seal with 0.25 Gal. per. Sq.Yd. of Bituminous Material (Sec. M-5.7 - RT- 9-10) or (Sec. M-5.3 MC-4-5) or (Sec. M-5.2 - RC-3-4) or (Sec. M-5.5 - RS-2) or (Sec. M-5.12 CBAE-2-3) and cover with 0.006 Cu.Yds. of # 6 Aggregate per Sq.Yd, Method B or C.
(2)	ITEM T-30	Bituminous Prime Coat (Sec. M-5.2 RC -1 or RC-2) or (Sec. M-5.3 MC-0 or MC-1) or (Sec. M-5.7, RT-2 or RT-3) applied @ 0.35 Gal. per. Sq.Yd.
(3)	ITEM B-119	5" Crushed Aggregate Base Course
(4)	ITEM 1-22	4" Subbase
(5)	ITEM L-9	Seeding & Protecting.

TYPICAL SECTION

TYPICAL SECTIONS SEITZ - HOLDEN RD. CONNECTION

TYPE T-32

SCALE: 3/8" = 1'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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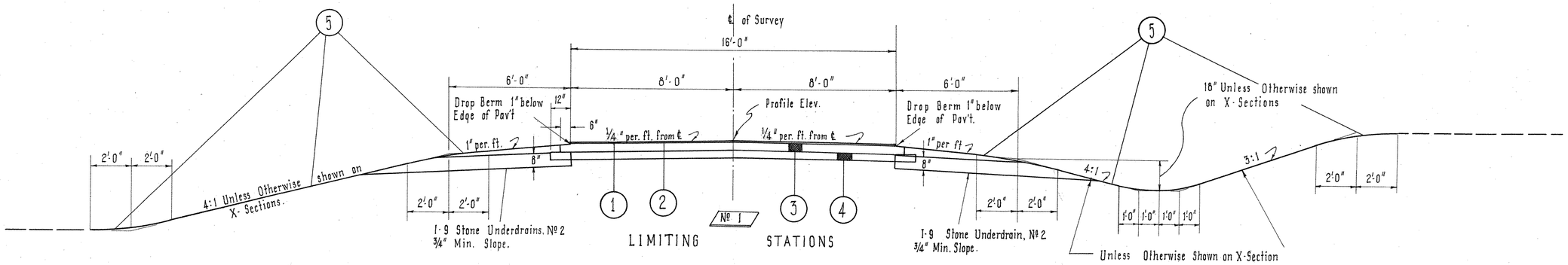
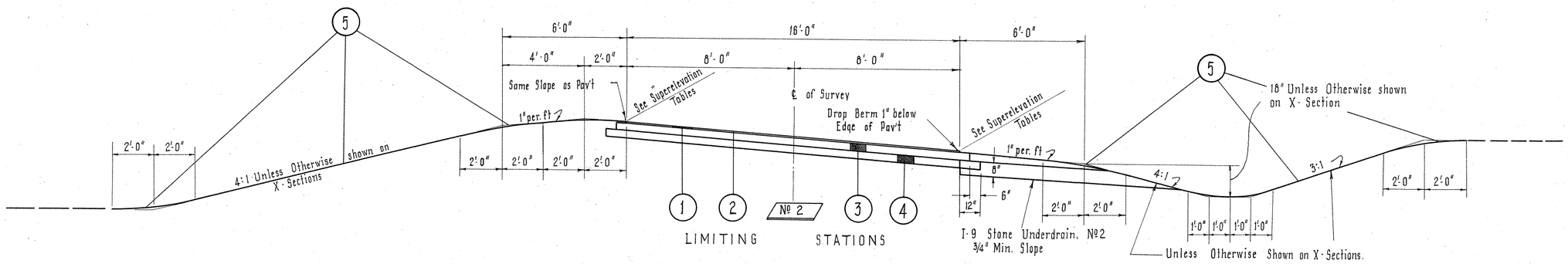
AUGLAIZE COUNTY
AUG-25-5.05



Station 21+19.51 (S-H) to Station 23+00 (S-H) = 2080.49 Lin. Ft.



Station 23+00 (S-H) to Station 33+21.03 = 921.03 Lin. Ft.

- CODE -

(1) ITEM T-32 Aggregate for Road Mix, 0.0375 Cu.Yds. of #6 Aggregate per sq. yd. with 0.7 gal. of Bituminous Material (Sec. M-5.7, RT-6-9) or (Sec. M-5.3, MC-4-5) or (Sec. M-5.12 CBAE-2-3) or (Sec. M-5.2 R.C.-2-3) per Sq. Yd. Under Item T-32 use for choke 0.004 Cu.Yds. of #9 Aggregate per. Sq. Yd. and Seal with 0.25 Gal. per. Sq. Yd. of Bituminous Material (Sec. M-5.7 RT-9-10) or (Sec. M-5.3, MC-4-5) or (Sec. M-5.2, RC-3-4) or (Sec. M-5.5, RS-2) or (Sec. M-5.12 C.B.A.E., 2-3) and cover with 0.008 Cu.Yds. of #6 Aggregate per. Sq. Yd. (Method "B" or "C")

(2) ITEM T-30 Bituminous Prime Coat (Sec. M-5.2, RC-1 or RC-2) or (Sec. M-5.3, MC-0 or MC-1) or (Sec. M-5.7, RT-2 or RT-3) applied @ 0.35 Gal. per. Sq. Yd.

(3) ITEM B-119 5" Crushed Aggregate Base Course.

(4) ITEM I-22 4" Subbase

(5) ITEM L-9 Seeding & Protecting

TYPICAL SECTION

TYPICAL SECTIONS FOR NATIONAL ROAD
TYPE T-71
Scale: 1/4" = 1'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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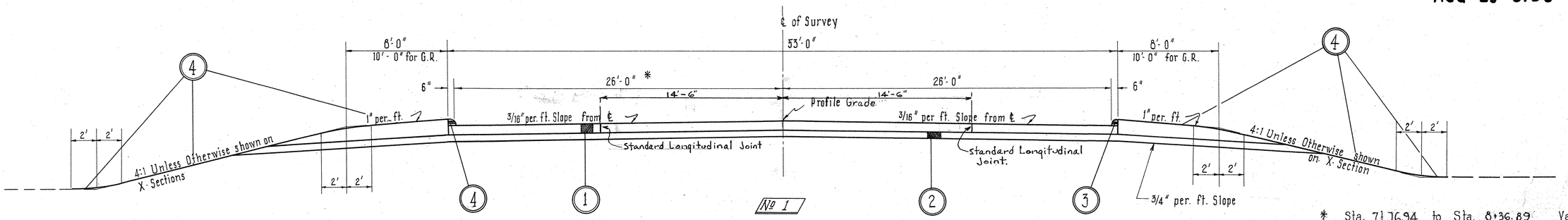
AUGLAIZE COUNTY
AUG-25-5.05

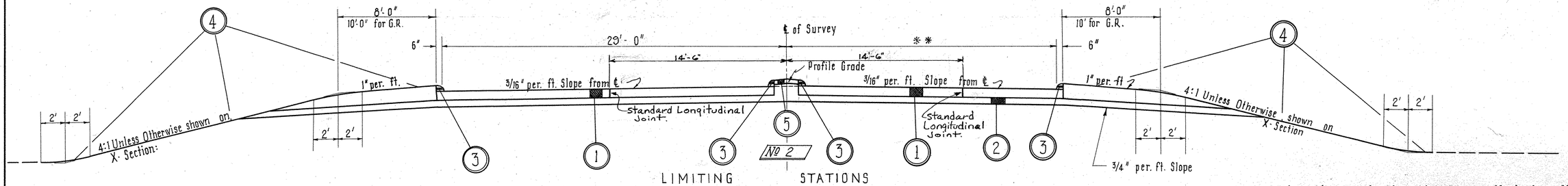


№ 1

LIMITING STATIONS

Station 4+27.57 to Station 4+78.40 = See Detail
Station 4+78.40 to Station 8+81.78 = 403.38 Lin.Ft.

* Sta. 7+76.94 to Sta. 8+36.89 Variable 26' to 29'
Sta. 8+36.89 to Sta. 8+81.78 29'



№ 2

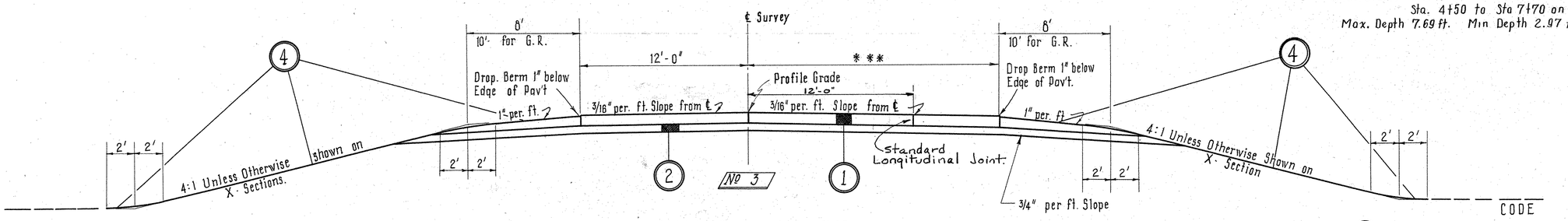
LIMITING STATIONS

Station 8+81.78 to Station 10+15.33 = 133.55 Lin. Ft.
Station 10+15.33 to Station 12+84.83 = Bridge ℄ Appr. Slab

** Sta. 8+95.33 to Sta. 10+15.33 Variable 26' to 20'

*** Sta. 12+84.33 to Sta. 14+73.15 18'
Sta. 14+73.15 to Sta. 16+53.15 Variable 18' to 24'
Sta. 16+53.15 to Sta. 17+53.15 24'
Sta. 17+53.15 to Sta. 20+03.15 Variable 24' to 12'

I-4 Depth Shown from Edge of Pav't.
I-4 Underdrains Sta. 4+50 to Sta 7+00 on Left.
Sta. 4+50 to Sta 7+70 on Right
Max. Depth 7.69 ft. Min Depth 2.97 ft.



№ 3

LIMITING STATIONS

Station 12+84.33 to Station 20+03.15 = 718.82 Lin. Ft.

CODE

1. ITEM T-71 9" Reinforced Portland Cement Concrete Pavement.
2. ITEM 1-22 6" Subbase except under Item 1-21
3. ITEM 1-12 Std. Type 2-A Concrete Curb.
4. ITEM L-9 Seeding & Protecting.
5. ITEM 1-21 Std. 4" Conc. Median Pavement, Type 1

TYPICAL SECTIONS

TYPICAL SECTIONS
FOR RAMPS AT EXISTING NATIONAL RD. & PROP. U.S.R. 25
TYPE T-71

Scale: 1/4" = 1'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
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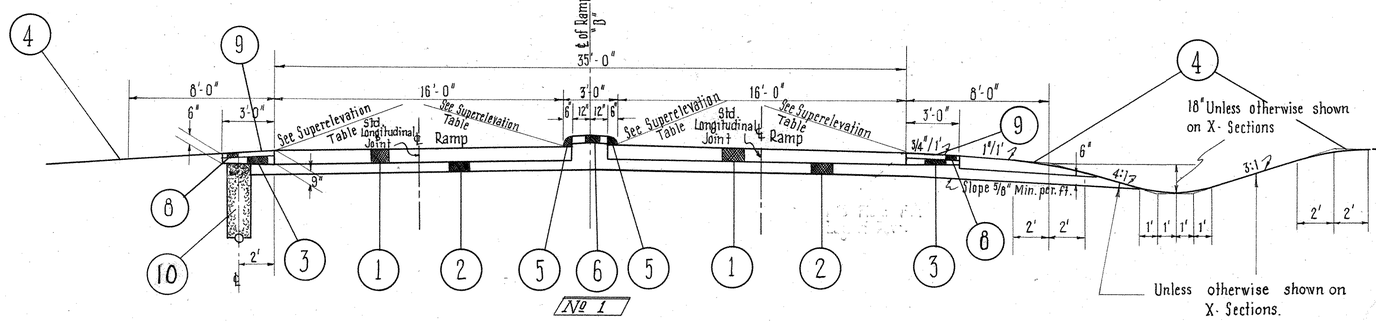
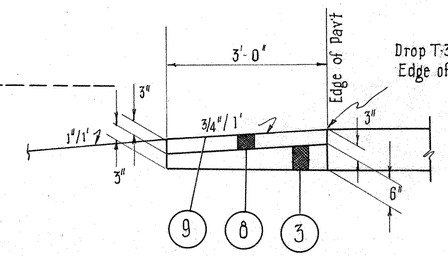


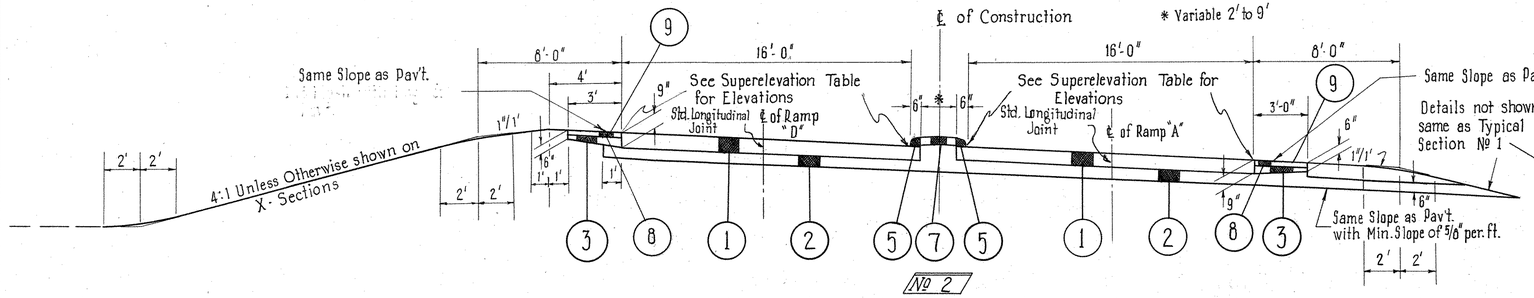
№ 1

LIMITING STATIONS

Station 0+00 (D) to Station 0+64 (D) = See Detail Sheet
Station 0+64 (D) to Station 1+83.00(D) = 119.00 Lin.Ft.



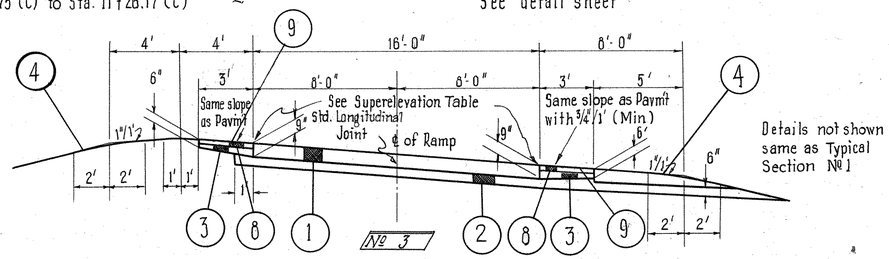
DETAIL OF STABILIZED SHOULDERS
Scale 3/4"/1'



№ 2

LIMITING STATIONS

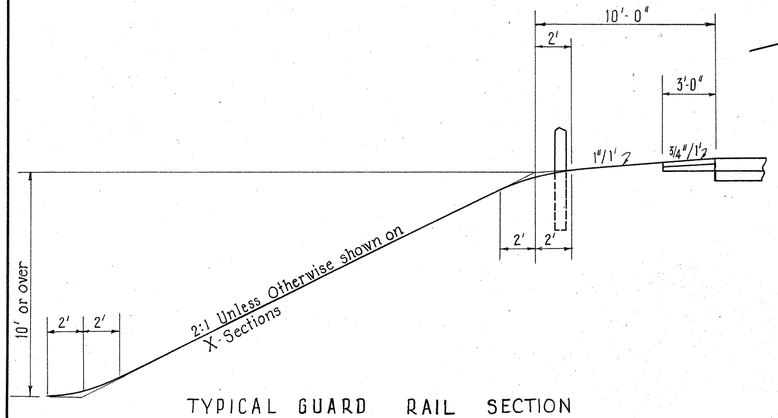
Station 8+01.15 (C) = Sta. 5+30.98 (D) to Sta. 9+62.75 (C) = Sta. 3+56.09 (D) = 161.60 Lin. Ft. along ℄ of Ramp "C"
Station 9+62.75 (C) to Sta. 11+26.17 (C) ~ See detail sheet



№ 3

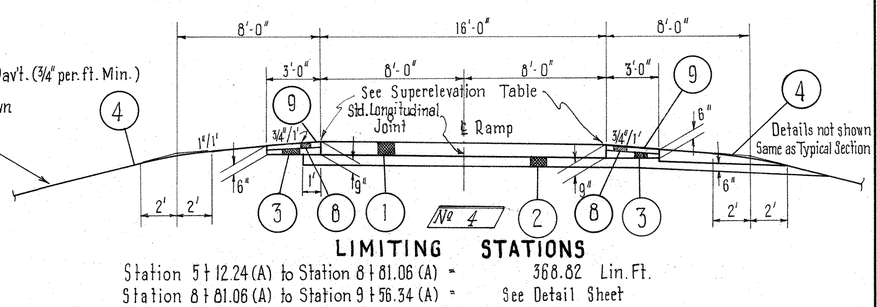
LIMITING STATIONS

Station	0+00 (A)	to	Station 2+34 (A)	See Detail Sheet
Station	2+34 (A)	to	Station 5+12.24 (A) =	278.24 Lin. Ft.
Station	4+50 (B)	to	Station 7+67.06 (B) =	317.06 Lin. Ft.
Station	7+67.06 (B)	to	Station 11+71.16 (B) =	See Detail Sheet
Station	0+00 (C)	to	Station 4+02.39 (C) =	See Detail Sheet
Station	4+02.39 (C)	to	Station 8+01.15 (C) =	398.76 Lin. Ft.
Station	11+26.17 (C)	to	Station 13+65 (C) =	238.83 Lin. Ft.
Station	13+65 (C)	to	Station 15+15.06 (C) =	See Detail Sheet
Station	5+30.98 (D)	to	Station 10+09 (D)	478.02 Lin. Ft.



TYPICAL GUARD RAIL SECTION

To be used where Guard Rail is called for on plans.



№ 4

LIMITING STATIONS

Station 5+12.24 (A) to Station 8+81.06 (A) = 368.82 Lin. Ft.
Station 8+81.06 (A) to Station 9+56.34 (A) = See Detail Sheet
Station 0+00 (B) to Station 0+75.28 (B) = See Detail Sheet
Station 0+75.28 (B) to Station 4+50 (B) = 374.72 Lin. Ft.

* CODE *

(8) ITEM B-33 3" Bituminous Macadam Base Course, Type "A" or "B"
(9) ITEM T-31 Bituminous Seal Coat consisting of 0.25 Gal./Sq.Yd. of Bituminous Material and 0.008 cu.yds. of No. 6 Aggregate per Sq.yd. (See Note in Proposal.)

(1) ITEM T-71 9" Reinforced Portland Cement Concrete Pavement.
(2) ITEM 1-22 6" Subbase except under 1-18 & 1-21 depth variable
(3) ITEM 1-18 Stabilized Crushed Aggregate Shoulders & Approaches
(4) ITEM L-9 Seeding and Protecting.
(5) ITEM 1-12 Concrete Curb, Type 2-A
(6) ITEM 1-21 Portland Cement Concrete Median Pavement, Type 1.
(7) ITEM 1-21 Portland Cement Concrete Median Pavement Type 1 as per plan.
(10) ITEM I-4 6" Underdrain - Max. Depth 7.1', Min. Depth 2.3'

TYPICAL SECTIONS
EXISTING U.S.R. 25 AT NATIONAL ROAD

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2	OHIO		

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AUGLAIZE COUNTY
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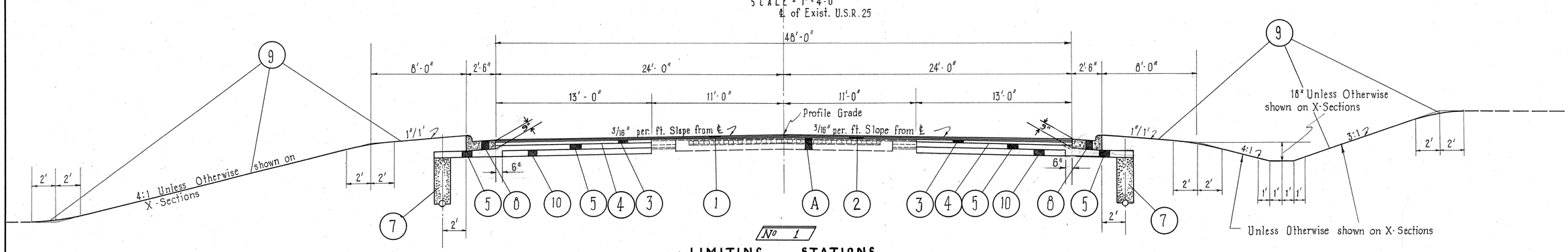
TYPE: T-35

SCALE = 1" = 4'-0"

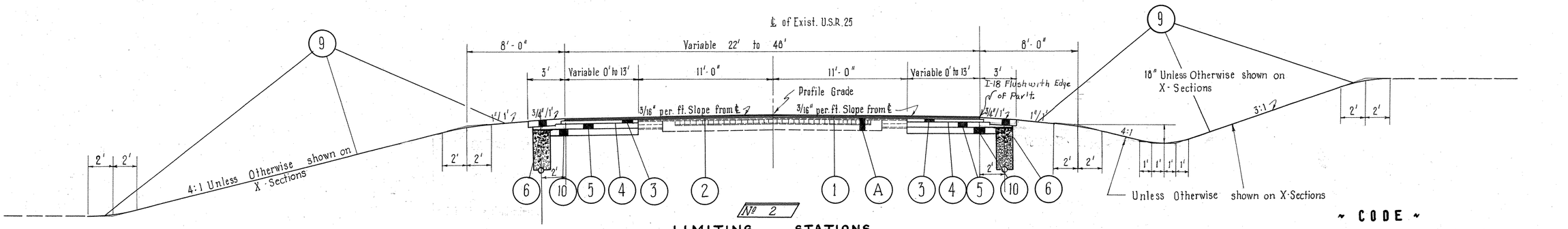


No 1

LIMITING STATIONS

Station 12+00 to Station 15+00 = 300.00 Lin. Ft.

I-4 Pipe Underdrain
Max. Depth 5.9 ft. Min Depth 4.5 ft.



No 2

LIMITING STATIONS

Station 6+87.5 to Station 12+00 = 312.50 Lin. Ft.
Station 15+00 to Station 18+12.5 = 312.50 Lin. Ft.
TOTAL = 625.00 Lin. Ft.

I-4 Pipe Underdrain
Max Depth 5.2ft - Min Depth 4.0 ft.

~ CODE ~

(A) Existing 22' of 2" Asphaltic Concrete Surface, on 16' Brick Wearing Surface with Concrete Base with additional 2' Base widening Lt. & Rt. Consisting of 6" Asphaltic Concrete Base on 1¼" Insulation Course.

(1) ITEM T-35 1¼" Asphaltic Concrete Surface Course, Type "A" (70-80)
(2) ITEM B-35 1¼" Min. Asphaltic Concrete Leveling Course (70-80)
(3) ITEM B-35 3" Asphaltic Concrete Base Course (70-80)
(4) ITEM T-30 Bituminous Prime Coat @ .35 Gal./Sq. Yd.
(5) ITEM B-119 8" Crushed Aggregate Base Course, except under I-12
(6) ITEM I-16 6" Stabilized Crushed Aggregate Shoulders & Approaches
(7) ITEM I-4 6" Pipe Underdrains.
(8) ITEM I-12 Standard Combination Concrete Curb & Gutter, Type 2
(9) ITEM L-9 Seeding & Protecting.
(10) ITEM I-22 8" Subbase.

EXIST. U.S.R. 25 AT NATIONAL ROAD

GENERAL NOTES

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AUGLAIZE COUNTY
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UTILITIES: The Contractor shall notify at least 48 hours before breaking ground all Public Service Corporations having wires, poles, pipe, conduits, manholes or other structures that may be affected by this operation, including all structures which are affected and not shown on these plans. Any and all work required for public or private utilities will be done by and at the expense of their respective owners unless otherwise noted on these plans.

EXISTING UNDERGROUND APPURTENANCES: The location, size and depth of all existing pipe and underground utility appurtenances represents the best information obtainable but the State of Ohio does not guarantee the correctness thereof. Payment for the pipe removed will be made according to listings shown on these plans.

FIELD OFFICE: A field office shall be furnished by the Contractor at a convenient place for the exclusive use of the Engineer and his assistants. It shall have a minimum floor area of 500 sq. ft. It shall be the Contractors responsibility to provide ample light and to equip and heat it as per Sec. S-0.01 (b) of the Construction and Materials Specifications. The Contractor shall have a telephone installed and maintained during construction of the project. Payment for the above shall be included in the Contract Unit Price bid for the various items of the Contract.

DESIGN SPEED: The design speed for this improvement is 70 miles per hour.

ELEVATION DATUM: All elevations are based on U.S.G.S. datum.

SALVAGE MATERIAL: All material shown on these plans which is to be removed and stored shall be stored on the Right of Way for removal by the State.

SUBGRADE COMPACTION: Subgrade under drives and approaches paved with B-119 material shall be compacted for a depth of six (6) inches to the density requirements shown in Table III, Item E-1. Payment for subgrade compaction, as specified above, shall be included in the unit price bid for Item E-1, Roadway Excavation.

REMOVAL OF TREES & STUMPS: The number, size and type of trees and stumps shown for removal on these plans is as nearly correct as the available information permits. The State of Ohio will not be responsible for any variations found during construction. The lump sum bid for Item E-9, Removal of Trees and Stumps shall constitute full payment for this item. Trees or stumps to be Removed ⊗ Trees to be preserved ⊙

SALVAGE OF EXISTING CATCH BASIN & INLET CASTINGS: The casting of all existing catch basins and inlets removed and abandoned under Items E-1, E-2, E-3, and I-16 shall be removed and stored on the Right of Way for removal by the State.

FINISHING SHOULDERS, SLOPES & DITCHES: Final earthwork sections shall be finished by rounding breaks in the shoulders, slopes, ditches, and back slopes as shown in the Typical Sections.

SEEDING & PROTECTING: Quantities for Seeding Item L-9 are calculated for the soil areas between lines ten feet (10') outside the work limits as shown on the Cross Sections or to the Right of Way line if such line is less than ten feet from the work limits. All areas outside these limits where the vegetative growth has been injuriously disturbed or destroyed by the Contractor shall be restored and seeded in accordance with provisions of Item L-9 by the Contractor at his own expense.

All areas surrounded by Ramps or Proposed Pav't. shall be seeded and Estimated Quantities are included in the General Summary.

REPLACEMENT: The Contractor shall replace at his own expense any Item not specifically listed for removal that is damaged or destroyed by his operations.

SPECIAL DITCHES: For ditch grades see Cross Sections.

ITEM T-31: Shields shall be used on the distributor to prevent bituminous material being spread onto the adjacent pavement. The cover aggregate shall be laid with an approved spreader box and care shall be taken to spread the material to the neat lines indicated on the plans.

CONSTRUCTION LAYOUT STAKES: See note in the Proposal describing the work included in this Lump Sum Pay Item.

HAND FINISHING OF T-71 PAVEMENT: Any areas such as intersections, turnouts, driveways, and approach slabs that are impracticable to be constructed with a finishing machine may be finished in accordance with Sec. T-71.211

ITEM L-10 SODDING, I-10 RIP-RAP & I-14 PAVED GUTTER: These Items are provided on the plans for erosion control. The Engineer shall check and make adjustments in location and quantities for these Items where indicated by field conditions during Construction.

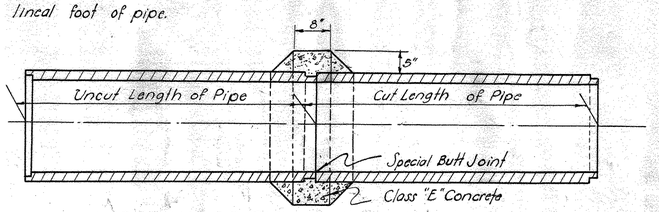
FLARING GUARD RAIL AT BRIDGES: Guard Rail shall be flared to meet the bridge railing in such a manner that the change in alignment of the guard rail shall not exceed 1:10.

DRAINAGE OF SUBBASE MATERIAL: Where the subbase material is drained by extensions through the shoulders to the fill slope or the ditch line, the Contractor shall finish, seed and mulch the slopes so as not to impede drainage of the subbase material. The actual area of the outcrop of the subbase material shall not be seeded.

REMOVAL (MISCELLANEOUS): The removal and disposal of any existing pavement, sidewalk, building foundations, steps, cellar floors, well covers, cisterns, septic tanks, concrete bases, walls, curb and gutters, rails, ties, pole stubs, guard rail posts, headwalls, pipes, cast iron plates or other masonry lying within or below the limits of Roadway Excavation, Item E-1; Excavation for Structures, Item E-2 or Channel Excavation, Item E-3 (and not specifically paid for under a separate Item) are classified as excavation and paid for under the excavation item of which they are a part. Sidewalks, steps, cellar floors, or other masonry shall be excavated to a depth of three (3') feet below the proposed pavement subgrade if located within the proposed pavement area, and to a depth of one (1') foot below the proposed finished surface if outside of the limits of the proposed pavement area. Pavement, cellar floors or other horizontal masonry within embankment limits shall be broken up into portions, whose area does not exceed one (1) square foot, but need not be removed. Backfilling shall be performed according to Section E-1.08 of the Construction and Material Specifications. Wells, cisterns, septic tanks and privy vaults shall be cleaned of any unsanitary material and may be filled with broken foundation masonry or rock placed as rock embankment according to Section E-108 of the Construction and Material Specifications. Payment for the above operations shall be included in the Contract Unit Price Bid for Roadway Excavation Item E-1; Excavation for Structures, Item E-2; and Channel Excavation, Item E-3. Additional excavation necessary to perform any of the above operations shall be paid for at the contract unit price bid per cubic yard for Roadway Excavation, Item E-1; Excavation for Structures, Item E-2, or Channel Excavation, Item E-3 as determined by the Engineer.

B-35, BASE COURSE: Type "A" surface course composition may be used in the construction of the asphaltic concrete base course in areas affected by typical section No 2 on Sht. No 6 and by typical section No 4 on Sht. No 9 only.

PIPE CULVERT: When bell and spigot pipe is used, any necessary pipe cut-offs will be made at the spigot end of the length of pipe adjacent to the end length. When tongue and groove pipe is used, the length of pipe next to the end length shall be cut and butt joint formed with a collar as shown below. The cost of the joint and collar shall be included in the Contract Unit Price Bid per lineal foot of pipe.



DETAIL OF PIPE CUT-OFF

I-9 STONE UNDERDRAINS, NO. 2 shall be spaced approximately every 50' and shall be placed where and as directed by the project engineer. All I-9 Outlets are to be adequately marked to permit inspection after final grading and before acceptance of the Project by the State of Ohio. It shall be construed that all Quantities shown for this Item shall be used in the areas in which they are allocated.

EXCAVATION FOR DUMPED ROCK FILL: Payment for excavation and backfill not included in Item E-1, Roadway Excavation in Item E-2 Excavation for Structures, or Item E-3, Channel Excavation and required for placement of dumped rock fill to the lines and grades shown on the plans shall be included in the Unit price bid for Item I-10 Dumped Rock Fill.

ALTERNATE JOINT LAYOUTS: If the Contractor elects to do so, he may submit for the approval of the Engineer, alternate layouts of joints for Item T-71 pavement at crossroads and ramps. Unless prior approval of the alternate layout is received from the Engineer, joints shall be constructed as detailed on these plans. Layouts shown on these plans or as altered by the Engineer

CONTRACTION JOINTS IN ITEM T-71 PAVEMENT: The location of certain contraction joints is specifically indicated on the various joint layouts shown in the plans. Additional contraction joints spaced at intervals of not more than sixty (60) feet shall be provided in all Item T-71 pavement as specified in the standard transverse joint drawings.

I-22 SUBBASE: In Section I-22.03 of the Construction and Material Specifications, the depth requirements of each compacted layer shall be expanded to read, "The subbase shall be constructed in layers not to exceed seven and one-half (7½) inches compacted depth."

SUPERELEVATION: Superelevated curves shall be built without crown. The crown shall be worked out of the pavement in that portion between the beginning of the transition and the point where the Superelevation equals twice the crown. Where the elevation of the high edge of the pavement is level with or lower than the profile grade, the berm shall be constructed in accordance with Typical Sections showing normal berm slopes.

ITEM I-10 DUMPED ROCK FILL: The size of stones as provided in Sec. I-10.05 of the Construction and Material Specifications is modified to permit the use of stones as large as may be conveniently placed to the lines and grades called for in the plans and to allow the inclusion of (not to exceed 10% by weight) spalls and stones of less than ⅓ Cubic Foot volume. Any pieces of stone or broken masonry resulting from the removal of the existing structures which meet the above requirements may be used as Dumped Rock Fill.

DATUM EQUATION: Aug. 25 - 13.29 ALL. - 25.00, B.M. #6, S.W. Corner of Intersection, National Road & Existing U.S. 25 (U.S.G.S.) Datum Elev. 906.81
Equals Aug. 25 - 4.71 B.M. # 59, R.R. Spike in ϕ at the S.W. Corner of Existing U.S. 25 & National Road (U.S.C.& G.S. Datum) Elev. 906.47.

ITEM SPECIAL - EXISTING WELLS & CISTERNS ABANDONED: Existing wells and cisterns shall be abandoned by removing well or cistern platform, if any, cutting off casing and capping with CLE concrete at an elevation 3' below proposed ground surface, or if a dug well, removing walls to an elevation 1' below proposed ground surface and backfilling in accordance with Section E-1.06. The number and type of wells and cisterns shown on the plans is as nearly correct as available information permits.

ROAD NAME SIGNS: All County, Township, City or Village road or street name signs that will be disturbed by the construction shall be carefully removed and stored by the Contractor at the disposal of their respective owners. Payment for this operation shall be included in the price bid for Roadway Excavation, Item E-1.

TILE FOR SUBGRADE DRAINAGE: 6" Drain tile shall be furnished and placed by the Contractor, in manholes, catch basins and inlets for subgrade drainage, where and as directed by the Engineer. Payment for same shall be included in the price bid per each for manholes, catch basins and inlets.

R/W MONUMENTS, FEDERAL PROJECT MARKERS AND SECTION MARKERS. Existing R/W Monuments, Bench Marks, Federal Project and Section Markers that will be removed by construction, shall be protected by the contractor as per. Section G 7.09 of the Material and Construction Specifications, until they can be witnessed, and referenced and reset by the Construction Crew.

LOCATION AND SIZE OF PIPES: The location, type, depth and size of all existing pipes are shown as near exact as the available information will permit. The State will not be responsible for any variations found during construction.

THIS CONTRACTOR shall cooperate and adjust his schedule of operations to be in accord and in agreement with Contractors on adjacent sections.

GENERAL NOTES

GENERAL NOTES (continued)

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
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EXISTING SANITARY DRAINS OR SEWERS: Sanitary drains or sewers encountered shall be plugged with class "E" Concrete unless abutting property owners have filed, with the Division Location and Design Engineer, a copy of a written consent from the County Health Authority stating that the effluent has been inspected and meets all State Board of Health requirements. Payment for plugging shall be included in the unit price bid for Item E-1 Roadway Excavation.

EXISTING FLEXIBLE PAVEMENT: Within the limits of Construction, where the existing flexible pavement will have less than six inches of fill placed upon it, the pavement shall be thoroughly scarified for its full depth, mixed with sufficient soil and properly recompacted to insure the elimination of any plane of separation between it and the embankment placed thereon. Outside the limits of construction the existing pavement shall be thoroughly scarified, mixed with sufficient soil and shaped to fit the surrounding terrain in such a manner as to insure the growth of seed planted thereon. Payment for all the above shall be included in the unit price bid for Item E-1 Roadway Excavation.

NON-RIGID PAVEMENT REMOVAL: The removal of non-rigid pavement is to be paid for under Item E-1, Roadway Excavation.

FLEXIBLE FORMS: Approved flexible forms shall be used for construction of circular pavement edges having a radius of 100 ft. or less, circular concrete curbs and concrete curb transitions of short radii.

EXCAVATION FOR ITEM I-18: Excavation for I-18 material used on Mail Box Turnouts and drives has been included in Earthwork Quantities when same is in "Cut". Where mail box turnouts and drives are in "Fill" excavation for I-18 material shall be made by the contractor at his own expense if he builds the embankment up to finish grade before placing the I-18 material.

GUARD RAIL REMOVAL: The removal of any Guard Rail or Guard Rail Posts lying within the limits of Roadway Excavation or Embankment (and not specifically paid for under a separate item) is included in the Contract Unit Price per cu. yd. bid for Item E-1 Roadway Excavation. All resulting materials shall become the property of the contractor and shall be disposed of by him at no extra cost to the State, except the steel rail on all existing steel beam type or steel cable or steel cable type Guard Rails shall be stored on the Right of Way at the disposal of the State.

REMOVAL OF EXISTING HOUSE DRAINS: The removal of all existing house connections, which includes sanitary, yard, roof, basement or other similar pipe drains within the roadway construction limits shall be classified and paid for as Item E-1, Roadway Excavation, unless otherwise itemized for payment in the plans.

STONE UNDERDRAINS NO. 2 - ITEM 1-9: No. 2 Stone Underdrain has been estimated on this project at approximately 50' intervals on each side where deep 1-4 drainage is not provided. This quantity is to be used in its entirety where and as directed by the Engineer.

SEWER HOUSE DRAINS: Existing House Connections:
All existing house drains, which includes sanitary, yard, roof, basement or other similar house drains now in use which are disturbed because of the Highway improvement, shall be replaced by the contractor. If the existing sewer is to be abandoned, then a satisfactory house connection shall be provided to the new sewer. Where an existing house is to be removed, the upgrade end of the existing house connection shall be plugged and accurately referenced if the existing house connection remains satisfactory for future use. *Payment for plugging (with Class "E" Concrete) and referencing shall be included in the unit price bid for Item E-1, Roadway Excavation. Estimated quantities of 200 L.F. of 6" I-3 and 200 L.F. of 6" Class "A" I-2 have been provided in the general summary for new connections as described above.*

UTILITY OWNERSHIP

Exist. U.S.R. 25 South of Wapakoneta at Prop. U.S.R. 33 Crossing:

Ⓟ Ohio Power Co.	Wapakoneta, O
Ⓣ Wapak Telephone ¢ Service Co.	Wapakoneta, O
Signal Lines B ¢ O Railroad Co.	Lima, O

CANNING FACTORY ROAD:

Ⓟ Ohio Power Co.	Wapakoneta, O
Ⓣ Wapak Telephone ¢ Service Co.	Columbus, O

N.Y.C. R.R.:

Signal Lines N.Y.C. R.R.	Springfield, O
Long Distance Cable - Ohio Bell Telephone -	Columbus, O

EXISTING S.R. 33

Ⓣ Wapak Telephone ¢ Service Co.	Wapakoneta, O
Ⓟ Ohio Power Co.	Wapakoneta, O

MIDDLE PIKE:

Ⓣ Wapak Telephone ¢ Service Co.	Wapakoneta, O.
Ⓟ Dayton Power ¢ Light Co.	Dayton, O.

BLANK PIKE:

Ⓣ Wapak Telephone ¢ Service Co.	Wapakoneta, O.

S.R. 67

Ⓣ Wapak Telephone ¢ Service Co.	Wapakoneta, O.
Ⓟ Dayton Power ¢ Light Co.	Dayton, O.

HENGSTLER ROAD:

Ⓣ Wapak Telephone ¢ Service Co.	Wapakoneta, O.
Ⓟ Ohio Power Co.	Wapakoneta, O.

SEITZ ROAD:

Ⓣ Wapak Telephone ¢ Service Co.	Wapakoneta, O.
Ⓟ Ohio Power Co.	Wapakoneta, O.

BUCKLAND - BINGVILLE - HOLDEN ROAD:

Ⓣ Wapak Telephone ¢ Service Co.	Wapakoneta, O.
Ⓟ Ohio Power Co.	Wapakoneta, O.

FREYMUTH ROAD:

Ⓣ Wapak Telephone ¢ Service Co	Wapakoneta, O.
Ⓟ Ohio Power Co.	Wapakoneta, O.

NATIONAL ROAD:

Ⓣ Wapak Telephone ¢ Service Co.	Wapakoneta, O.
Ⓟ Ohio Power Co.	Wapakoneta, O.

EXISTING U.S.R. 25 AT NATIONAL ROAD:

Gas - West Ohio Gas	Lima, O.
Ⓟ Ohio Power Co.	Wapakoneta, O.
Ⓣ Wapak Telephone ¢ Service Co.	Wapakoneta, O.

PROPOSED U.S.R. 25 MAIN LINE:

Ⓣ Wapak Telephone ¢ Service Co.	Wapakoneta, O.
Ⓟ Dayton Power ¢ Light Co.	Dayton, O.
Ⓟ Midwest Power	St. Marys, O

TRAFFIC NOTE

EXISTING U.S. ROUTE 25 AND PROPOSED TEMPORARY CONNECTION TO PROPOSED U.S. ROUTE 25 SOUTH OF WAPAKONETA:
Two way traffic on Existing U.S. Route 25 shall be maintained at all times except during the operation of resurfacing, when one way traffic may be maintained. The length of one way traffic zones shall be kept to a minimum consistent with the requirements of Sec. T-35.23 Protection of Wearing Course. Within the limits of work on Existing U.S. Route 25 the Contractor shall maintain the existing roadway and pavement by making the necessary repairs including patching the pavement surface with bituminous material when requested by the Engineer.

CANNING FACTORY ROAD shall be closed to through traffic. Local traffic shall be maintained at all times in accordance with Sec. G-4.05, and shall be understood to include maintaining access to adjacent property affected by any of the construction operations.

EXISTING U.S. ROUTE 33 AND EXISTING S.R. 67 AT PROPOSED U.S. ROUTE 25:
✱ Two way traffic shall be maintained at all times on either U.S. Route 33 or S.R. 67. Construction of the grade separations at the above locations shall alternate so that only one of these roads is closed at any one time. During construction of the grade separations detours will be provided as shown on the detour map. The proposed structure and pavement on the first of these separations constructed, shall be completed before the alternate route is closed. When in the opinion of the Engineer, both roads can be opened to traffic, the detour shall cease and two way traffic shall be maintained as directed by the Engineer.
Within the limits of work on both U.S. Route 33 and S.R. 67, the Contractor shall maintain the Roadway and pavement by making the necessary repairs including patching the pavement surface with bituminous material, when requested by the Engineer.

MIDDLE PIKE AND PROPOSED U.S. ROUTE 25: Middle Pike may be closed concurrently with either U.S. Route 33 or S.R. 67 for the purpose of construction of this grade separation, however the total period of time during which it is closed shall not exceed one calendar year. Also, during the time that Middle Pike is closed, Cemetery Road shall be connected to S.R. 67 either by the existing or the proposed road.

HENGSTLER ROAD will be closed to traffic during construction of the grade separation over Proposed U.S. Route 25, however the total period of time during which it is closed shall not exceed one calendar year.

SEITZ ROAD: Seitz Road, which is to be cul-de-saced to the West of proposed U.S. Route 25, and connected to the Seitz-Holden Connection to the east of Proposed U.S. Route 25 shall be kept open and traffic maintained until both the Hengstler Road and Buckland-Holden Road grade separations over proposed U.S. Route 25 are completed and opened to traffic.

BUCKLAND - HOLDEN ROAD: will be closed to traffic during construction of the grade separation over Proposed U.S. Route 25, however the total period of time during which it is closed shall not exceed one calendar year.

FREYMUTH ROAD: which is to be cul-de-saced to the east and west of Proposed U.S. Route 25, shall be kept open and traffic maintained until the Buckland-Holden Road grade separation over Proposed U.S.R. 25 is completed and opened to traffic.

NATIONAL ROAD AND PROPOSED U.S. ROUTE 25: Traffic shall be maintained at all times. Before any work is begun on the National Road grade separation over Proposed U.S. Route 25, and in no event later than Dec. 31, 1957, the northbound lanes of Prop. U.S. 25 between Sta. 696+54.71 and Sta. 701+75 and a temporary run-around road with a temporary connection to Proposed U.S. Route 25 shall be provided as shown on Sheet No. 326-A of these plans. East of the temporary connection to Prop. U.S. Route 25, two way traffic shall be maintained, except that one way traffic will be permitted during construction of the twin pipe structure at Sta. 17+75 National Road and when in the opinion of the Engineer it is necessary in order to complete the paving on the east approach to the Proposed National Road grade separation over Proposed U.S Route 25. Two way traffic shall be maintained at all times over the temporary connection to Proposed U.S. Route 25 and over the temporary run-around road westward to Existing U.S. Route 25.
The Contractor shall exercise care during the construction of the grade separation structure so that this traffic can be safely maintained.
Upon completion of the proposed paving at the intersection of Existing U.S. Route 25 and National Road and on the National Road grade separation including Ramps "B" & D, traffic shall be rerouted over the improvement and the temporary run-around road removed. Northbound traffic from existing U.S. Route 25 to Proposed U.S. Route 25 will be routed over National Road and Ramp "D". Southbound traffic from Proposed U.S. Route 25 to existing U.S. Route 25 will be routed over Ramp "B" and National Road.

EXISTING U.S. ROUTE 25 AT NATIONAL ROAD INTERSECTION: Two way traffic on Existing U.S. Route 25 shall be maintained at all times except during the operation of resurfacing of existing pavement, when one way traffic may be maintained. The length of one way traffic zones shall be kept to a minimum consistent with the requirements of Sec. T-35.23, Protection of Wearing Course. Within the limits of work on existing U.S. Route 25 the Contractor shall maintain the existing roadway and pavement by making the necessary repairs including patching the pavement surface with bituminous material when requested by the Engineer.

GENERAL: Local traffic shall be maintained at all times within the limits of work on all interseching roads, in accordance with Sec. G-4.05 of the Construction and Material Specifications, and shall be understood to include maintaining access to adjacent property affected by any of the construction operations.
Quantities of T-35 Asphaltic Concrete for Maintaining Traffic., S-15 Aggregate for Traffic Compacted Surface Course and S-15 Calcium Chloride or Calcium Magnesium Chloride have been provided below for the maintenance of traffic, if and as directed by the Engineer. Cost of all of the above except Item S-15, Temporary Run-around Roads and for furnishing and applying Item T-35 Asphaltic Concrete for Maintaining Traffic, Item S-15 Aggregate for Traffic Compacted Surface Course and Item S-15 Calcium Chloride or Calcium Magnesium Chloride, shall be included in the Lump Sum Price bid for Maintaining Traffic. The Department of Highways will enter upon any State Highway where the Contractor is responsible for the maintenance of traffic, to remove snow and ice and place abrasives, at its own expense as may be considered necessary or advisable, in accordance with Sec. G-7.06 of the Construction and Material Specifications
If the Contractor elects he may submit alternate plans for maintaining traffic for written approval. Any change shall be submitted well in advance of any operation requiring traffic to be maintained.

TEMPORARY RUNAROUNDS	Item S-15 Temp. Runaround using Class "A" Pavt.	ITEM S-15 Temporary Runaround Roads
From Sta 8+00 (Ex US-25) to Sta 696+54.71 (Prop US 25)	Lump	
From Sta 695+80 (Prop US25) to Sta 22+00 (National Rd)		Lump

✱ See Note in Proposal, quantity carried direct to Summary

ESTIMATED QUANTITIES	✱ T-35	S-15	S-15
LOCATION	Asphaltic Conc. Surface for Maintaining Traffic	Aggregate & Traffic Compacted Surface Course	Calcium-Chloride or Calcium-Magnes. Chloride
	Cu. Yds.	Cu. Yds	Tons
Existing U.S.R. 25 at Proposed Temporary Connection - South of Wapakoneta	5 ✓	10	.5
Canning Factory Road		20	.4
Existing U.S.R. 33 at Proposed U.S.R. 25	25	110	2.2
Middle Pike at Proposed U.S.R. 25		105	2.1
Existing S.R. 67 at Proposed U.S.R. 25	25	115	2.3
Hengstler Road at Proposed U.S.R. 25		105	2.1
Seitz Road at Proposed U.S.R. 25		90	1.8
Buckland-Holden Road at Proposed U.S.R. 25		110	2.2
Freymouth Road at Proposed U.S.R. 25		90	1.8
National Road at Proposed U.S.R. 25		105	2.1
Existing U.S.R. 25 and National Road Intersections	10	1620	32.5
Totals	65	2484	49.6

✱ In order to meet these conditions with respect to traffic maintenance on SR-67 and USR 33 and to facilitate construction operations in these two areas, it may be found necessary to provide temporary runarounds at either the SR-67 or USR-33 separation. Runarounds so provided shall be constructed, maintained, and removed in accordance with the provisions of Item S-15, using Class "A" Pavement, with line and grade subject to approval of the Engineer. Payment for temporary runarounds as described above at either of the above locations shall be included in the lump Sum bid for "Maintaining Traffic".

DRAINAGE TABLE

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AUGLAIZE COUNTY
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Plan & Profile Sheet No	Reference No	Detail Sheet No	Station From	Station To	Side	E-2 Excavation For Structures CuYds.	E-3 Channel Excavation CuYds.	E-12 Pipe Removed 15" & under Lin.Ft.	E-12 Pipe Removed Over 15" Lin.Ft.	E-12 Pipe Removed for Storage 15" & under Lin.Ft.	E-12 Pipe Removed for Storage Over 15" Lin.Ft.	I-1 Pipe for Driveways Sec. M-6.4(a) 12" Lin.Ft.	15" Lin.Ft.	18" Lin.Ft.	24" Lin.Ft.	I-2 Class "B" Storm Sewers Under Pvmt&Appr. 12" Lin.Ft.	I-2 Storm Sewer under Pavement or Approaches Class "A" 8" Lin.Ft.	12" Lin.Ft.	15" Lin.Ft.	18" Lin.Ft.	24" Lin.Ft.	Sec M-6.4 (C) 12" Lin.Ft.	I-3 Roadway Drainage 8" Lin.Ft.	10" Lin.Ft.	12" Lin.Ft.	15" Lin.Ft.	18" Lin.Ft.	24" Lin.Ft.	I-3 Roadway Drainage Under Pavement or Approaches 8" Lin.Ft.	Sec. M-6.4(b) 8" Lin.Ft.	10" Lin.Ft.	12" Lin.Ft.	15" Lin.Ft.	18" Lin.Ft.	24" Lin.Ft.	I-3 Outlets For Roadway Drainage 8" Lin.Ft.	10" Lin.Ft.	12" Lin.Ft.	15" Lin.Ft.	18" Lin.Ft.	24" Lin.Ft.	I-2 Storm Sewer Under Railroad 12" Lin.Ft.
																	FEDERAL PARTICIPATION																									
42	1-D		316+13.5	316+57	℄	37																200		199																		
42	2-D		317+75	319+75	℄																																					
42	3-D		318+00	320+00	Rt																																					
42	4-D		318+00	320+00	Rt			244																																		
43	1-D		320+00	323+30	Lt&Rt																			84						340												
43	2-D		320+00	323+12	Lt&Rt			375																																		
43	3-D	328	2462+60	New York Cent Sta.	Lt	33																																				80
43	4-D		324+11	327+18	Lt																			302		4																
43	5-D		323+71	327+13	Lt			344																																		
43	6-D	74	329+00		Lt	7																																				
43	7-D		332+50	334+00	Rt																																					
44	1-D	76	340+00		Lt	9																																				
44	2-D	77	347+00		Lt	20																																				
44	3-D		348+05	350+00	Rt			195																																		
44	4-D		349+00	350+00	Lt				100																																	
45	1-D		350+00	351+19	Lt&Rt			110	126																																	
45	2-D		350+00	352+72	Lt																																					
45	3-D	329	352+35		Lt&Rt	134	2249																																			10
45	4-D		351+26	351+55	Rt																																					
45	5-D	79	355+00		Lt	25																																			
45	6-D	79	359+00		Lt	10																																			
45	7-D		360+00	361+50	Lt																																					
46	1-D	82	368+00		Lt	17																																			
46	2-D		373+09		Rt																																					
46	3-D		377+80		Rt																																					
47	1-D	332	380+68		Lt&Rt	63											184							22		8															
47	2-D	85	386+00		Lt	9																																				
47	3-D	333	391+17		Lt&Rt	57	4		62													174					4	14													
47	4-D		390+92	393+00	Lt																																					
47	5-D		391+19	393+00	Rt																																					
48	1-D	87	399+00		Lt	15																																			
48	2-D		403+62		Rt																																					
48	3-D		403+62	404+84	Lt&Rt			197																																		
48	4-D		405+27	407+70	Lt&Rt			450																																		
48	5-D		407+00	407+85	Lt																																					
48	6-D		407+00	407+48	Rt																																					
48	7-D	334	407+86		Lt&Rt	276	40																																			
48	8-D	89	409+00		Lt	18																																			
48	9-D		407+80	409+00	Rt																																					
48	10-D		407+97	410+00	Rt			272																																		
48	11-D	89	410+00		Lt	19																																			
49	1-D		410+26		Rt																																					
49	2-D		410+69		Rt																																					
49	3-D		411+43		Rt																																					
50	1-D	93	430+00		Rt	32																																			
50	2-D	336	428+02.5	430+06.5	Lt	125																																			
50	3-D	337	431+35	433+45	Rt	632																																			
50	4-D	93	434+50		Rt	32																																			
50	5-D		434+86		Rt																																					
50	6-D		435+09	438+87	Lt&Rt			432																																		
50	7-D		438+52	439+40	Lt&Rt			210																																		
50	8-D	94	430+00		Rt	33																																			
50	9-D		439+51		Rt																																					
	Subtotal					1603	2293	2829	288								184					174	200	607		12	4	374		340										110				10	80

DRAINAGE TABLE

DRAINAGE TABLE

FED. RD. DIVISION	STATE	PROJECT	
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AUGLAIZE COUNTY
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Plan & Profile Sheet No.	Reference No.	Detail Sheet No.	Station From	Station To	Side	I-5 Pipe Specials: For I-3: 8"x8" Tee Each	10"x8" Tee	15"x8" Tee	15"x10" Tee	18"x8" Tee	24"x8" Tee Each	12"x24" Tee Each	8"x8" Wye Each	8"x10" Wye Each	8"x24" Wye Each	24"x18" Wye Each	8"x45° Curve Each	8"x30° Curve Each	12"x30°	12"x45°	24"x30° Curve Each	24"x45° Curve Each	For I-2: 12"x8" Wye Each	For S-27: 15"x30° Curve Each	15"x45° Curve Each	I-8 Standard No. / Side Ditch Inlet (Mod. as per plan) Each	I-8 Catch Basins Standard Number: I-2A Each	1-3 Each	1-4 Each	Mod. as per plan: 2-3	2-3	2-2A Each	1-3 Each	1-4 Each	2-4 Each	I-8 Catch Basin 3-A Each	I-10 Dumped Rock Fill Cu.Yds.	I-14 Paved Gutter Type "1" Lin.Ft.	I-16 Inlets Abandoned Each	I-16 Catch Basins Abandoned Each	I-16 Manhole Abandoned	I-17 Cellular Retaining Walls Sq.Ft.	I-10 Sodding Sq.Yds.
																									FEDERAL PARTICIPATION																
42	1-D		316+13.5	316+57	℄																														37						
42	2-D		317+75	319+75	℄																																					
42	3-D		318+00	320+00	Rt.																						1															
42	4-D		318+00	320+00	Rt.																																					
43	1-D		320+00	323+30	Lt&Rt												1																									
43	2-D		320+00	323+12	Lt&Rt																																					
43	3-D	328	2462+60	New York Cent. Sta.	Lt.																						1															
43	4-D		324+11	327+18	Lt																						1															
43	5-D		323+71	327+13	Lt																																	1				
43	6-D	74	329+00		Lt																				2		1									2.6						
43	7-D		332+50	334+00	Rt																																					152
44	1-D	76	340+00		Lt																						1															
44	2-D	77	347+00		Lt																						1															
44	3-D		348+05	350+00	Rt																																					
44	4-D		349+00	350+00	Lt																	1																				
45	1-D		350+00	351+19	Lt&Rt																																					
45	2-D		350+00	352+72	Lt																																					
45	3-D	329	352+35		Lt&Rt																																79						
45	4-D		351+26	351+55	Rt																																					
45	5-D	79	355+00		Lt																						1									2.2						
45	6-D	79	359+00		Lt																												1			2						
45	7-D		360+00	361+50	Lt																																	55					95
46	1-D	82	368+00		Lt																																					
46	2-D		373+09		Rt																																					
46	3-D		377+80		Rt																																					
47	1-D	332	380+68		Lt&Rt												1										1															
47	2-D	85	386+00		Lt																						2		1													
47	3-D	333	391+17		Lt&Rt																						2															
47	4-D		390+92	393+00	Lt																																					214
47	5-D		391+19	393+00	Rt																																					176
48	1-D	87	399+00		Lt																																					
48	2-D		403+62		Rt																																					
48	3-D		403+62	404+84	Lt&Rt																																					
48	4-D		405+27	407+70	Lt&Rt																																					
48	5-D		407+00	407+85	Lt																																					90
48	6-D		407+00	407+48	Rt																																					50
48	7-D	334	407+86		Lt&Rt																																	33					
48	8-D	80	409+00		Lt																																					
48	9-D		407+80	409+00	Rt																																					120
48	10-D		407+97	410+00	Rt																																					
48	11-D	89	410+00		Lt																																					
49	1-D		410+26		Rt																																					
49	2-D		410+69		Rt																																					
49	3-D		411+43		Rt																																					
50	1-D	93	430+00		Rt																						1															
50	2-D	336	428+025	430+065	Lt																																					
50	3-D	337	431+35	433+45	Rt																																26						
50	4-D	93	434+50		Rt																						1															
50	5-D		434+86		Rt																																					20
50	6-D		435+09	438+87	Lt&Rt																																					
50	7-D		438+52	439+40	Lt&Rt																																					
50	8-D	94	439+00		Rt																						1															
50	9-D		439+51		Rt.																																					20
SUB-TOTAL																	2				1		1		2		14	1		1						148.8		88	1			937

DRAINAGE TABLE

FED. RD. DIVISION	STATE	PROJECT	
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AUGLAIZE COUNTY
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Plan & Profile Sheet No	Reference No	Detail Sheet No	Station From	Station To	Side	S-1 Concrete for Structures Class "E" Cu.Yds.	S-4 Reinforcing Steel lbs.	S-22 Removal of Portions of Existing Structures Lump	S-24 Removal of Existing Structures Lump	S-27 Pipe for Roadway Culverts Sec. M-6.8(b) or Sec. M-6.6(b) 12" Lin.Ft.	15" Lin.Ft.	18" Lin.Ft.	21" Lin.Ft.	24" Lin.Ft.	27" Lin.Ft.	30"	36" Lin.Ft.	42" Lin.Ft.	48" Lin.Ft.	54" Lin.Ft.	66" Lin.Ft.	S-27 Sec. M 206.6(d) 24"	S-27 Sec. M-6.6(b) Reinforced Conc. Pipe for Roadway Culverts 8'-0"	S-27 Paved Bituminous Coated Corrugated Metal Pipe for Rd'wy Culverts (Sec. M-6.4(d)) 30" Lin.Ft.	15" Lin.Ft.	24"	36"	18"	21"	S-27 43"x27" M-6.9(i)(d) or 38"x24" M-206.6(b) Pipe Lin.Ft.	S=28 gage(5-3) Sectional Corrugated Metal Structure 15'-10"x9'-10" Lin.Ft.	Item Special Expansion Anchor Bolts	Item Special Wells Abandoned	Item Special Cistern Abandoned	S-27 50"x31" M-6.9(i)(d) or 45"x29" M-206.6(b) Pipe Lin. Ft.	Remarks
										FEDERAL PARTICIPATION																										
42	1-D		316+13.5	316+57	℄																														
42	2-D		317+75	319+75	℄																														
42	3-D		318+00	320+00	Rt.																														
42	4-D		318+00	320+00	Rt.																														
43	1-D		320+00	323+30	Lt℄ Rt.																														
43	2-D		320+00	323+12	Lt℄ Rt.																														
43	3-D	328	2462+60	New York Cent. Std.		0.8																40													
43	4-D		324+11	327+18	Lt.																														
43	5-D		323+71	327+13	Lt.																														
43	6-D	74	329+00		Lt.	0.26					68														52										
43	7-D		332+50	334+00	Rt.																														
44	1-D	76	340+00		Lt.	0.26					72																								
44	2-D	77	347+00		Lt.	0.26					88																								
44	3-D		348+05	350+00	Rt.																														
44	4-D		349+00	350+00	Lt.																														
45	1-D		350+00	351+19	Lt℄ Rt.																														
45	2-D		350+00	352+72	Lt.																														
45	3-D	329	352+35		Lt℄ Rt.	32.4																											352		
45	4-D		351+26	351+55	Rt.																														
45	5-D	79	355+00		Lt.	0.26					82																								
45	6-D	79	359+00		Lt.	0.26					94																								
45	7-D		360+00	361+50	Lt.																														
46	1-D	82	368+00		Lt.	0.50					66																								
46	2-D		373+09		Rt.																													1	
46	3-D		377+80		Rt.																														
47	1-D	332	380+68		Lt℄ Rt.	1.18												164																	
47	2-D	85	386+00		Lt.	0.50					70																								
47	3-D	333	391+17		Lt℄ Rt.	1.72																			168										
47	4-D		390+92	393+00	Lt.																														
47	5-D		391+19	393+00	Rt.																														
48	1-D	87	399+00		Lt.	0.5					66																								
48	2-D		403+62		Rt.																														
48	3-D		403+62	404+84	Lt℄ Rt.	0.1																													
48	4-D		405+27	407+70	Lt℄ Rt.																														
48	5-D		407+00	407+85	Lt.																														
48	6-D		407+00	407+48	Rt.																														
48	7-D	334	407+86		Lt℄ Rt.	3.6																			340										
48	8-D	89	409+00		Lt.	0.5					72																								
48	9-D		407+80	409+00	Rt.																														
48	10-D		407+97	410+00	Rt.																														
48	11-D	89	410+00		Lt.	0.5					70																								
49	1-D		410+26		Rt.																														
49	2-D		410+69		Rt.	0.1																														
49	3-D		411+43		Rt.																														
50	1-D	93	430+00		Rt.	0.26					90																								
50	2-D	336	428+02.5	430+06.5	Lt.	0.72						204																							
50	3-D	337	431+35	433+45	Rt.	2.1										420																			
50	4-D	93	434+50		Rt.	0.26					88																								
50	5-D		434+86		Rt.																														
50	6-D		435+09	438+87	Lt℄ Rt.																														
50	7-D		438+52	439+40	Lt℄ Rt.	0.1																													
50	8-D	94	439+00		Rt.	0.26					88																								
50	9-D		439+51		Rt.																														
Subtotal						47.40					1014	204				420		164				40			52						352			1	

DRAINAGE TABLE

DRAINAGE TABLE

FED. RD. DIVISION	STATE	PROJECT	
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AUGLAIZE COUNTY
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Plan & Profile Sheet No	Reference No	Detail Sheet No	Station From	Station To	Side	E-2 Excavation for Structures Cu Yds	E-3 Channel Excavation Cu. Yds	E-12 Pipe Removed 15" & under Lin. Ft.	E-12 Pipe Removed Over 15" Lin. Ft.	E-12 Pipe Removed for Storage 15" & under Lin. Ft.	E-12 Pipe Removed for Storage Over 15" Lin. Ft.	I-1 Pipe for Driveways Sec. M-6.4(a) 12" Lin. Ft.	15" Lin. Ft.	18" Lin. Ft.	24" Lin. Ft.	I-2 "B" Class Storm Sewers Under Pvt/Approc. 12" Lin. Ft.	I-2 Storm Sewer under Pavement or Approaches Class A 8" Lin. Ft.	12" Lin. Ft.	15" Lin. Ft.	18" Lin. Ft.	24" Lin. Ft.	Sec. M-6.4 (C) 12" Lin. Ft.	I-3 Roadway Drainage 8" Lin. Ft.	10" Lin. Ft.	12" Lin. Ft.	15" Lin. Ft.	18" Lin. Ft.	24" Lin. Ft.	I-3 Roadway Drainage Under Pavement or Approaches 8" Lin. Ft.	Sec. M-6.4(b) 8" Lin. Ft.	10" Lin. Ft.	12" Lin. Ft.	15" Lin. Ft.	18" Lin. Ft.	24" Lin. Ft.	I-3 Outlets for Roadway Drainage 8" Lin. Ft.	10" Lin. Ft.	12" Lin. Ft.	15 Lin. Ft.	18 Lin. Ft.	24 Lin. Ft.	I-2 Storm Sewer Over Rdwy 12" Lin. Ft.
												FEDERAL					PARTICIPATION																								
Sub total		Brought Forward				1603	2293	2829	288								184				174	200	607		12		4	374		340						110					10	80
51	1-D		441+18		Rt.																														10					
51	2-D		443+29		Lt.																																				
51	3-D		447+00	448+36	Lt.	29																																			
51	4-D		448+30	448+90	Rt.	67																																			
51	5-D		449+07	449+52	Lt.	4									36																										
51	6-D		449+61	450+03	Rt.	4									36																										
51	7-D		449+82	450+35	Rt.	58																																			
51	8-D	96	450+48		Lt.	5																																			
51	9-D		451+00	453+00	Lt.																																				
51	10-D		451+25	454+00	Rt.																																				
51	11-D	98	455+00		Rt.	19																																			
52	1-D		461+00	462+58	Rt.																																				
52	2-D	338	463+49		Lt. & Rt.	218	39																																		
52	3-D		464+00	466+00	Rt.																																				
52	4-D		466+00		Lt.	15																																			
53	1-D	101	471+00		Rt.	16																																			
53	2-D		474+36		Rt.																																				
53	3-D		475+26		Lt.																																			10		
53	4-D		475+86		Lt.	23																																			
53	5-D		484+00	485+00	Rt.																																				
54	1-D		487+00	489+40	Lt.																																				
54	2-D		487+00	490+72	Rt.																																				
54	3-D	340	490+10		Lt. & Rt.	67																	36	208																
54	4-D		491+54	493+78.5	Lt.																																				
54	5-D	341	493+78		Lt. & Rt.	28																																				
54	6-D		493+79.5	496+15	Lt. & Rt.			182									186							220		6														
54	7-D		493+80.5	495+22	Lt.																		24	130																
54	8-D		495+46	498+35	Lt.																		30	234																
54	9-D	342	498+24		Lt. & Rt.	120	4	86	15										180				54		38	6														
54	10-D		497+50	499+00	Lt.																																				
55	1-D	106	501+00		Rt.	11																																			
55	2-D		501+09	504+57	Lt. & Rt.			400																																	
55	3-D		501+09	508+00	Rt.																																				
55	4-D		502+68	505+46	Lt. & Rt.			333																																	
55	5-D		504+54		Lt.																																			10		
55	6-D		504+75	509+00	Lt.																																				
55	7-D	107	508+00		Rt.	16																																			
56	1-D		517+00		Lt.	26																																			
56	2-D	109	518+00		Rt.	17																																			
56	3-D		518+00	519+00	Rt.																																				
56	4-D		520+25		Lt.																																			10		
56	5-D		529+17		Lt.																																			10		
56	6-D		530+00		Lt.																																			10		
57	1-D	111	534+00		Rt.	17																																			
57	2-D		535+00		Lt.	21																																			
57	3-D		535+37		Lt.																																			10		
57	4-D		533+64	537+33	Rt.			380																																	
57	5-D	343	541+00		Lt. & Rt.	330	372																																		
57	6-D		543+88		Rt.																																				
57	7-D	113	544+00		Rt.	18																																			
57	8-D		544+58		Lt.																																				
Sub total						2732 (2732)	2708	4210	303						72		370	180		174	200	761	792	50	12	4	374		340						180					10	80

DRAINAGE TABLE

FED. RD. DIVISION	STATE	PROJECT	
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AUGLAIZE COUNTY
AUG 25-5.05

Plan & Profile Sheet No	Reference No	Detail Sheet No	Station From	Station To	Side	I-5 Pipe Specials: For I-3: 8"x8" Tee Each	12"x8" Tee Each	15"x8" Tee Each	15"x10" Tee Each	18"x8" Tee Each	24"x8" Tee Each	12"x24" Tee Each	8"x8" Wye Each	8"x10" Wye Each	8"x24" Wye Each	24"x18" Wye Each	8"x45° Curve Each	8"x30° Curve Each	12"x30° Curve Each	12"x45° Curve Each	24"x30° Curve Each	24"x45° Curve Each	For I-2: 12"x8" Wye Each	For S-27: 15"x30° Curve Each	15"x45° Curve Each	I-8 Standard No / Side Ditch Inlet (Mod. as per plan) Each	I-8 Catch Basins Standard Number: 12-A Each	1-3 Each	1-4 Each	Mod. as per plan: 2-3	2-3	22-A Each	1-3 Each	1-4 Each	2-4 Each	I-8 Catch Basin 3-A Each	I-10 Dumped Rock Fill Cu.Yds.	I-14 Paved Gutter Type "I" Lin.Ft.	I-16 Inlets Abandoned Each	I-16 Catch Basins Abandoned Each	I-16 Manhole Abandoned	I-17 Cellular Retaining Walls Sq.Ft.	L-10 Seeding Sq.Yds.
Subtotal brought Forward																	2				1		1	2			14	1				1				148.8	88	1				937
51	1-D		441+18		Rt.																																					30
51	2-D		443+29		Lt.																																					
51	3-D		447+00	448+36	Lt.																															29						91
51	4-D		448+30	448+90	Rt.																															67						
51	5-D		449+07	449+52	Lt.																															4						
51	6-D		449+61	450+03	Rt.																															4						
~~51~~	~~7-D~~		~~449+82~~	~~450+35~~	~~Rt.~~																																					
51	8-D	96	450+48		Lt.																			2			1															6
51	9-D		451+00	453+00	Lt.																																	85						117
51	10-D		451+25	454+00	Rt.																																	112						164
51	11-D	98	455+00		Rt.																																					
52	1-D		461+00	462+58	Rt.																																					155
52	2-D	338	463+49		Lt & Rt.																																					
52	3-D		464+00	466+00	Rt.																																					200
52	4-D		466+00		Lt.																															15						
53	1-D	101	471+00		Rt.																																					
53	2-D		474+36		Rt.																																					
53	3-D		475+26		Lt.																																					21
53	4-D		475+86		Lt.																															23						
53	5-D		484+00	485+00	Rt.																																					100
54	1-D		488+56	489+35	Lt.																																					80
54	2-D		485+00	490+75	Rt.																																					495
54	3-D	340	490+10		Lt & Rt.																														1		18.6						
54	4-D		491+54	493+78.5	Lt.									6																											
54	5-D	341	493+78		Lt & Rt.																																					37
54	6-D		493+79.5	496+15	Lt & Rt.									5													2														
54	7-D		493+80.5	495+22	Lt.		4											5																							
54	8-D		495+46	498+35	Lt.									5																											
54	9-D	342	498+24		Lt & Rt.							2								1							2								1					2		
54	10-D		497+50	499+00	Lt.																																					154
55	1-D	106	501+00		Rt.																						1															
55	2-D		501+09	504+57	Lt & Rt.																																					
55	3-D		510+09	508+00	Rt.																																					700
55	4-D		502+68	505+46	Lt & Rt.																																					
55	5-D		504+54		Lt.																																					
55	6-D		504+75	509+00	Lt.																																					425
55	7-D	107	508+00		Rt.																																					
56	1-D		517+00		Lt.																															26						
56	2-D	109	518+00		Rt.																																					
56	3-D		518+00	519+00	Rt.																																					100
56	4-D		520+25		Lt.																																					23
56	5-D		529+17		Lt.																																					
56	6-D		530+00		Lt.																																					18
57	1-D	111	534+00		Rt.																																					
57	2-D		535+00		Lt.																															21						
57	3-D		535+37		Lt.																																					
57	4-D		533+64	537+33	Rt.																																					
57	5-D	343	541+00		Lt & Rt.																																					
57	6-D		543+88		Rt.																																					
57	7-D	113	544+00		Rt.																																					
57	8-D		544+58		Lt.																																					
Subtotal						4						2	16			2	5		1	1		1	4				20	1			1	1	2			356.4	285	1	2			3793

DRAINAGE TABLE

DRAINAGE TABLE

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AUGLAIZE COUNTY
AUG 25 ~ 5.05 ~

Plan & Profile Sheet No	Reference No	Detail Sheet No	Station From	Station To	Side	S-1 Concrete For Structures Class "E" Cu.Yds.			S-4 Reinforcing Steel lbs.		S-22 Removal of Portions of Existing Structures Lump		S-24 Removal of Existing Structures Lump	S-27 Pipe For Roadway Culverts Sec. M-6.8(b) or Sec. M-6.6(b) 12" Lin.Ft.	15" Lin.Ft.	18" Lin.Ft.	21" Lin.Ft.	24" Lin.Ft.	27" Lin.Ft.	30" Lin.Ft.	36" Lin.Ft.	42" Lin.Ft.	48" Lin.Ft.	54" Lin.Ft.	66" Lin.Ft.	S-27 Sec. M-106.6(d) 24"	S-27 Sec. M-6.6(b) Reinforced Conc. Pipe For Roadway Culverts 8'-0"		S-27 Paved Bituminous Coated Corrugated Metal Pipe For Rdwy Culverts (Sec. M-6.4(d)) 30" Lin.Ft.	15" Lin.Ft.	24"	36"	18"	21"	S-27 43"x27" M-6.4(1)(d) or 38"x24" M-206.6(b) Pipe Lin.Ft.	S-28 gage (5-3) Sectional Corrugated Metal Structure 15-10½"x9-10" Lin.Ft.		Item Special Expansion Anchor Bolts	Item Special Wells Abandoned	Item Special Cistern Abandoned	S-27 50"x31" M-6.4(1)(d) Pipe or 45"x29" M-206.6(b) Pipe Lin.Ft.	Remarks
															FEDERAL PARTICIPATION																												
Sub-total	brought Forward						47.40								1014		204			420	164		508			40			52						352			1				
51	1-D		441+18		Rt																																					
51	2-D		443+29		Lt		0.1																																			
51	3-D		447+00	448+36	Lt																																					
51	4-D		448+30	448+90	Rt																																					
51	5-D		449+07	449+52	Lt																																					
51	6-D		449+61	450+03	Rt																																					
51	7-D		449+82	450+35	Rt																																					
51	8-D	06	450+48		Lt		0.26								65														23													
51	9-D		451+00	453+00	Lt																																					
51	10-D		451+25	454+00	Rt																																					
51	11-D	08	455+00		Rt		0.5								72																											
52	1-D		461+00	462+58	Rt																																					
52	2-D	338	463+49		Lt & Rt		1.92																		246																	
52	3-D		464+00	466+00	Rt																																					
52	4-D		466+00		Lt																																					
53	1-D	101	471+00		Rt		0.5								66																											
53	2-D		474+36		Rt		0.1																																			
53	3-D		475+26		Lt																																					
53	4-D		475+86		Lt																																					
53	5-D		484+00	485+00	Rt																																					
54	1-D		487+00	489+40	Lt																																					
54	2-D		487+00	490+72	Rt																																					
54	3-D	340	490+10		Lt & Rt		1.02														218																					
54	4-D		491+54	493+78.5	Lt		0.1																																			
54	5-D	341	493+78		Lt & Rt		1.18															178																				
54	6-D		493+79.5	496+15	Lt & Rt		0.2																																			
54	7-D		493+80.5	495+22	Lt																																					
54	8-D		495+46	498+35	Lt		0.2																																			
54	9-D	342	498+24		Lt & Rt		3.1																352																			
54	10-D		497+50	499+00	Lt																																					
55	1-D	106	501+00		Rt		0.26								80																											
55	2-D		501+09	504+57	Lt & Rt		0.1																																			
55	3-D		501+09	508+00	Rt																																					
55	4-D		502+65	505+46	Lt & Rt																																					
55	5-D		504+54		Lt																																					
55	6-D		504+75	509+00	Lt																																					
55	7-D	107	508+00		Rt		0.5								66																											
56	1-D		517+00		Lt																																					
56	2-D	109	518+00		Rt		0.5								66																											
56	3-D		518+00	519+00	Rt																																					
56	4-D		520+25		Lt																																					
56	5-D		529+17		Lt																																					
56	6-D		530+00		Lt																																					
57	1-D	111	534+00		Rt		0.52								70																											
57	2-D		535+00		Lt																																					
57	3-D		535+37		Lt																																					
57	4-D		533+64	537+33	Rt		0.1																																			
57	5-D	343	544+00		Lt & Rt		3.0													456																					
57	6-D		543+88		Rt		0.1																																			
57	7-D	113	544+00		Rt		0.52								68																											
57	8-D		544+58		Lt		0.1																																			
	Subtotal						62.28								1569		204			456	638	342	352	508	246		40			75						352			1				

DRAINAGE TABLE

FED. RD. DIVISION	STATE	PROJECT	
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AUGLAIZE COUNTY
AUG. 25~5.05~

Plan & Profile Sheet No	Reference No	Detail Sheet No	Station From	Station To	Side	E-2 Excavation For Structures Cu.Yds.	E-3 Channel Excavation Cu.Yds.	E-12 Pipe Removed 15" & under Lin.Ft.	E-12 Pipe Removed Over 15" Lin.Ft.	E-12 Pipe Removed for Storage 15" & under Lin.Ft.	E-12 Pipe Removed for Storage Over 15" Lin.Ft.	I-12 Class "A" Storm Sewer Under Pav't. or Appr. Sec M-10.4(d) Lin.Ft.	I-1 Pipe for Driveways Sec. M-6.4(a) 12" Lin.Ft.	15" Lin.Ft.	18" Lin.Ft.	24" Lin.Ft.	I-2 "B" Storm Sewers Under Pvt. or Appr. 12" Lin.Ft.	I-2 Storm Sewer under Pavement or Approaches Class A 8" Lin.Ft.	12" Lin.Ft.	15" Lin.Ft.	18" Lin.Ft.	24" Lin.Ft.	Sec M-6.4 (C) 12" Lin.Ft.	I-3 Roadway Drainage 8" Lin.Ft.	10" Lin.Ft.	12" Lin.Ft.	15" Lin.Ft.	18" Lin.Ft.	24" Lin.Ft.	I-3 Roadway Drainage Under Pavement or Approaches 8" Lin.Ft.	Sec M-6.4(b) 8" Lin.Ft.	10" Lin.Ft.	12" Lin.Ft.	15" Lin.Ft.	18" Lin.Ft.	24" Lin.Ft.	I-3 Outlets For Roadway Drainage 8" Lin.Ft.	10" Lin.Ft.	12" Lin.Ft.	15" Lin.Ft.	18" Lin.Ft.	24" Lin.Ft.	I-2 Storm Sewer Under Railroad 12" Lin.Ft.
Sub-total Brought Forward						2732	2708	4210	303							72		FEDERAL PARTICIPATION	370	180		174	200	751	792	50	12	4	374		340						180						10	80
58	1-D		547+00	550+00	Lt.		2732																																				
58	2-D		547+00	550+00	Rt.																																						
58	3-D		550+37	552+89	Lt&Rt.														180					40	242			78														
58	4-D	114	553+00		Lt&Rt.	65																																					
58	5-D		554+34	558+24	Lt&Rt.																	430						26														
58	6-D		556+53	558+24	Lt.			130																		184																
58	7-D		555+65	559+03	Lt&Rt.				336													386						26														
58	8-D	116	560+00		Rt.	12																																					
59	1-D		561+48		Rt.																																						
59	2-D		566+60		Rt.																																				10						
59	3-D		567+27		Rt.																																									
59	4-D		570+73		Rt.																																				10						
59	5-D		572+12		Rt.																																				10						
59	6-D		573+03		Rt.	17																																			10						
59	7-D		573+31	575+16	Lt&Rt.													280						48																				
60	1-D	118	576+00		Rt.	11																																							
60	2-D		578+66	579+03	Lt&Rt.			252																4																				
60	3-D		579+03	579+97	Lt&Rt.																			4																				
60	4-D		579+97	582+77	Lt&Rt.																370			4				10															
60	5-D		580+30	581+45	Lt																			112																				
60	6-D		579+97	585+77	Lt&Rt.			874																																					
60	7-D		580+30	586+60	Lt&Rt.																	674						20														
60	8-D		582+77	585+77	Rt.																							308															
60	9-D	120	587+00		Rt.	71																																					
60	10-D		587+00		Rt.																																							
60	11-D		586+60	588+06	Lt&Rt.															284							4															
60	12-D		587+00	588+06	Lt&Rt.			268																																					
61	1-D	121	594+00		Lt&Rt.	53																																					
61	2-D		596+65	599+82	Rt.																	320						10														
61	3-D		599+76	599+82	Lt&Rt.														192																								
61	4-D		598+45	599+76	Lt																			128																				
61	5-D	122	601+00		Rt.	11																																					
61	6-D		597+00	604+19	Rt.			474	612																																				
61	7-D		599+82	605+00	Rt.																							518															
61	8-D		599+43	604+19	Rt.							300																198															
61	9-D	346	602+92.6	604+034	Rt.																																							
61	10-D		603+01		Rt.																																							
61	11-D	123	604+00		Lt&Rt.	42																																					
61	12-D		604+62		Lt.																																							
61	13-D		603+01	605+00	Lt&Rt.			568																																				
61	14-D		603+25	605+00	Lt.																			60	120																		
62	1-D		605+00	608+43	Lt&Rt.			440																																				
62	2-D		605+00	605+74	Lt&Rt.																				74																		
62	3-D		605+75		Lt&Rt.																164						4															
62	4-D		605+00	605+74	Rt.																							74															
62	5-D	123	606+00		Lt&Rt.	48																																					
62	6-D		605+76	608+43	Rt.																			8			4	262														
62	7-D	124	611+00		Lt&Rt.	52																																					
62	8-D	125	618+00		Lt&Rt.	74																																					
63	1-D	127	627+00		Rt.	20																																					
63	2-D		628+12	629+02	Lt&Rt.													174						4																		
63	3-D		633+47		Rt.					16																																	
63	4-D		632+00	635+00	Lt.																			278																115			
63	5-D	128	635+00		Lt.	11																																					
Sub-total						3219 (3219)	2708	7216	1251	16		300				72		454	742	464	534	1984	200	1437	1228	234	24	860	1048	377	340							220					10	80

DRAINAGE TABLE

DRAINAGE TABLE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY
AUG. 25 - 5.05 -

Plan & Profile Sheet No	Reference No	Detail Sheet No	Station From	Station To	Side	I-5 Pipe Specials For I-3: 8"x8" Tee Each	10"x8" Tee Each	12"x8" Tee Each	15"x10" Tee Each	18"x8" Tee Each	24"x8" Tee Each	12"x24" Tee Each	8"x8" Wye Each	8"x10" Wye Each	8"x24" Wye Each	24"x18" Wye Each	8"x45° Curve Each	8"x30° Curve Each	12"x30° Curve Each	12"x45° Curve Each	24"x30° Curve Each	24"x45° Curve Each	For I-2: 12"x8" Wye Each	For S-27: 15"x30° Curve Each	15"x45° Curve Each	I-8 Standard No 1 Side Ditch Inlet Each (Mod. as per plan)	I-8 Catch Basins Standard Number: 1-2-A Each	1-3 Each	1-4 Each	Mod. as per plan: 2-3	2-3	2-2-A Each	1-3 Each	1-4 Each	2-4 Each	I-8 Catch Basin 3-A Each	I-10 Dumped Rock Fill Cu. Yds.	I-14 Paved Gutter Type "1" Lin. Ft.	I-16 Inlets Abandoned Each	I-16 Catch Basins Abandoned Each	I-16 Manhole Abandoned Each	I-17 Cellular Retaining Walls Sq. Ft.	L-10 Sodding Sq. Yds.
																									FEDERAL PARTICIPATION																
SUB-TOTAL BROUGHT FORWARD							4						2	16			2	5	1	1			1	4			20		1			1	1	2		356.4	285	1	2			3793
58	1-D		547+00	550+00	Lt																																			300
58	2-D		547+00	550+00	Rt																																			300
58	3-D		550+37	552+89	Lt & Rt		1							2		1											2														
58	4-D	114	553+00		Lt & Rt																							1													
58	5-D		554+34	558+24	Lt & Rt																								2												
58	6-D		556+53	558+24	Lt														1																					
58	7-D		555+65	559+03	Lt & Rt																								2										1		
58	8-D	116	560+00		Rt																							1													
59	1-D		561+48		Rt																																				
59	2-D		566+60		Rt																																				20
59	3-D		567+27		Lt																																				
59	4-D		570+73		Rt																																				
59	5-D		572+12		Rt																																				
59	6-D		573+03		Rt																																	17			
59	7-D		573+31	575+16	Lt & Rt	1																					2														
60	1-D	118	576+00		Rt																																				
60	2-D		578+66	579+03	Lt & Rt																																				
60	3-D		579+03	579+97	Lt & Rt																							1													
60	4-D		579+97	582+77	Lt & Rt																							2													
60	5-D		580+30	581+45	Lt												1																								
60	6-D		579+97	585+77	Lt & Rt																																				
60	7-D		580+30	586+60	Lt & Rt																								2												
60	8-D		582+77	585+77	Rt																							1													
60	9-D	120	587+00		Rt																									1											
60	10-D		587+00		Rt																																				
60	11-D		586+60	588+06	Lt & Rt																							1													
60	12-D		587+00	588+06	Lt & Rt																																				
61	1-D	121	594+00		Lt & Rt																																				
61	2-D		596+65	599+82	Rt																									1											
61	3-D		599+76	599+82	Lt & Rt																							1		1											
61	4-D		598+45	599+76	Lt													2																							
61	5-D	122	601+00		Rt																							1													
61	6-D		597+00	604+19	Rt																																				
61	7-D		599+82	605+00	Rt																																				
61	8-D		599+43	604+19	Rt																							3													
61	9-D	346	602+926	604+03.4	Rt																																			1640	
61	10-D		603+01		Rt																																				
61	11-D	123	604+00		Lt & Rt																							1										1			
61	12-D		604+62		Lt																																				
61	13-D		603+01	605+00	Lt & Rt																																				
61	14-D		603+25	605+00	Lt		2										2																								
62	1-D		605+00	608+43	Lt & Rt																																				
62	2-D		605+00	605+74	Lt & Rt																																				
62	3-D		605+75		Lt & Rt																							2													
62	4-D		605+00	605+74	Rt																																				
62	5-D	123	606+00		Lt & Rt																																				
62	6-D		605+76	608+43	Rt				1																			1													
62	7-D	124	611+00		Lt & Rt																								1												
62	8-D	125	618+00		Lt & Rt																								1												
63	1-D	127	627+00		Rt																							1													
63	2-D		628+12	629+02	Lt & Rt																							1													
63	3-D		633+47		Rt																																				
63	4-D		632+00	635+00	Lt																							1													
63	5-D	128	635+00		Lt																																				
SUB-TOTAL						1	7		1				2	18		1	5	7	1	1	1		1	4			43	10	3			1	1	2		373.4	285	2	3	1	1640	4413

DRAINAGE TABLE

FED. RD. DIVISION	STATE	PROJECT	
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AUGLAIZE COUNTY
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Plan & Profile Sheet No.	Reference No.	Detail Sheet No.	Station From	Station To	Side	S-1 Concrete for Structures Class "E" Cu.Yds.	S-4 Reinforcing Steel lbs.	S-22 Removal of Portions of Existing Structures Lump	S-24 Removal of Existing Structures Lump	S-27 Pipe for Roadway Culverts Sec. M-6.8 (b) or Sec. M-6.6(b) 12" Lin.Ft.	15" Lin.Ft.	18" Lin.Ft.	21" Lin.Ft.	24" Lin.Ft.	27" Lin.Ft.	30" Lin.Ft.	36" Lin.Ft.	42" Lin.Ft.	48" Lin.Ft.	54" Lin.Ft.	66" Lin.Ft.	S-27 Sec. M-10.6(d) 24"	S-27 Sec. M-6.6(b) Reinforced Conc. Pipe for Roadway Culverts 8'-0"	S-27 Paved Bituminous Coated Corrugated Metal Pipe for Rdwy Culverts (Sec. M-6.4(d)) 30" Lin.Ft.	15"	24"	36"	18"	21"	S-27 43"x27" M-6.4(1)(d) Pipe or 38"x24" M-206.6(b) Pipe Lin.Ft.	S-28 gage (5-3) Sectional Corrugated Metal Structure 15'-10½" 9'-10" Lin.Ft.	Item Special Expansion Anchor Bolts	Item Special Wells Abandoned	Item Special Cistern Abandoned	S-27 50"x31" M-6.4(1)(d) Pipe or 45"x29" M-206.6(b) Pipe Lin.Ft.	Remarks
									FEDERAL	PARTICIPATION																										
Sub-Total Brought Forward						62.28				1569			204		456	638	342	352	508	246		40			75						352			1		
58	1-D		547+00	550+00	Lt.																														
58	2-D		547+00	550+00	Rt.																														
58	3-D		550+37	552+89	Lt & Rt.	0.1																													
58	4-D	114	553+00		Lt & Rt.	4.24												488																	
58	5-D		554+34	558+24	Lt & Rt.																														
58	6-D		556+53	558+24	Lt.																														
58	7-D		555+65	559+03	Lt & Rt.																														
58	8-D	116	560+00		Rt.	0.26					86																								
59	1-D		561+48		Rt.	0.1																													
59	2-D		566+60		Rt.																														
59	3-D		567+27		Lt.	0.1																													
59	4-D		570+73		Rt.																														
59	5-D		572+12		Rt.																														
59	6-D		573+03		Rt.																														
59	7-D		573+31	575+16	Lt & Rt.																														
60	1-D	118	576+00		Rt.	0.6						72																							
60	2-D		578+66	579+03	Lt & Rt.	0.1																													
60	3-D		579+03	579+97	Lt & Rt.																														
60	4-D		579+97	582+77	Lt & Rt.																														
60	5-D		580+30	581+45	Lt.																														
60	6-D		579+97	585+77	Lt & Rt.																														
60	7-D		580+30	586+60	Lt & Rt.																														
60	8-D		582+77	585+77	Rt.																														
60	9-D	120	587+00		Rt.	1.94									304																				
60	10-D		587+00		Rt.	0.1																													
60	11-D		586+60	588+06	Lt & Rt.																														
60	12-D		587+00	588+06	Lt & Rt.																														
61	1-D	121	594+00		Lt & Rt.	1.02										162																			
61	2-D		596+65	599+82	Rt.																														
61	3-D		599+76	599+82	Lt & Rt.																														
61	4-D		598+45	599+76	Lt.																														
61	5-D	122	601+00		Rt.	0.26					76																								
61	6-D		597+00	604+19	Rt.																														
61	7-D		599+82	605+00	Rt.																														
61	8-D		599+43	604+19	Rt.																														
61	9-D	346	602+92.6	604+03.4	Rt.																														
61	10-D		603+01		Rt.																														
61	11-D	123	604+00		Lt & Rt.	1.61							204																						
61	12-D		604+62		Lt.																														
61	13-D		603+21	605+00	Lt & Rt.																														
61	14-D		603+25	605+00	Lt.																														
62	1-D		605+00	608+43	Lt & Rt.																														
62	2-D		605+00	605+74	Lt & Rt.																														
62	3-D		605+75		Lt & Rt.																														
62	4-D		605+00	605+74	Rt.																														
62	5-D	123	606+00		Lt & Rt.	1.74								304																					
62	6-D		605+76	608+43	Rt.																														
62	7-D	124	611+00		Lt & Rt.	1.01										156																			
62	8-D	125	618+00		Lt & Rt.	1.02										158																			
63	1-D	127	627+00		Rt.	0.26					78																								
63	2-D		628+12	629+02	Lt & Rt.	0.3																													
63	3-D		633+47		Rt.																														
63	4-D		632+00	635+00	Lt.																														
63	5-D	128	635+00		Lt.	0.52					66																								
Sub-total						71.76				1875	72	498	304	760	1114	342	840	508	246		40			75						352			1		

DRAINAGE TABLE

FED. RD. DIVISION	STATE	PROJECT	
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AUGLAIZE COUNTY
AUG 25-5.05-

Plan & Profile Sheet No	Reference No	Detail Sheet No	Station From	Station To	Side	E-2 Excavation For Structures Cu.Yds.	E-3 Channel Excavation Cu.Yds.	E-12 Pipe Removed 15" & under Lin.Ft.	E-12 Pipe Removed Over 15" Lin.Ft.	E-12 Pipe Removed For Storage 15" & under Lin.Ft.	E-12 Pipe Removed For Storage Over 15" Lin.Ft.	I-2 18" Class "A" Storm Sewer Under Pavt. Sec 19-106.6(d) Lin. Ft.	I-1 Pipe For Driveways Sec. M-6.4(a) 12" Lin.Ft.	15" Lin.Ft.	18" Lin.Ft.	24" Lin.Ft.	I-2 Class "B" Storm Sewers Under Pavt. Appr. 12" Lin.Ft.	I-2 Storm Sewer under Pavement or Approaches Class A 8" Lin.Ft.	12" Lin.Ft.	15" Lin.Ft.	18" Lin.Ft.	24" Lin.Ft.	Sec M-6.4 (c) 12" Lin.Ft.	I-3 Roadway Drainage 8" Lin.Ft.	10" Lin.Ft.	12" Lin.Ft.	15" Lin.Ft.	18" Lin.Ft.	24" Lin.Ft.	I-3 Roadway Drainage Under Pavement or Approaches 8" Lin.Ft.	Sec M-6.4(b) 8" Lin.Ft.	10" Lin.Ft.	12" Lin.Ft.	15" Lin.Ft.	18" Lin.Ft.	24" Lin.Ft.	I-3 Outlets For Roadway Drainage 8" Lin.Ft.	10" Lin.Ft.	12" Lin.Ft.	15" Lin.Ft.	18" Lin.Ft.	24" Lin.Ft.	I-2 Storm Sewer Under Railroad 12" Lin.Ft.
																		'FEDERAL PARTICIPATION																											
SUB-TOTAL BROUGHT FORWARD						3219	2708	7216	1251	16		300				72		454	742	464	534	1984	200	1437	1228	234	24	860	1048	377	340							220					10	80
64	1-D		635+00	636+22	Lt																			122																			
64	2-D		636+22	638+10	Lt																			196																			
64	3-D		640+00	641+06.5	Lt & Rt													186						8																			
64	4-D		643+35	643+43	Lt & Rt													160						8																			
64	5-D	130	645+00		Lt & Rt	97	6																																					
64	6-D		645+30	645+92	Lt & Rt													178						8																			
64	7-D		647+92		Rt																																			10					
65	1-D		650+93		Rt																																			10					
65	2-D		652+85		Rt																																			10					
65	3-D		653+42		Rt																																			10					
65	4-D		654+65		Rt																																			20					
65	5-D		656+64		Rt																																			10					
65	6-D	133	664+00		Rt	22																																							
66	1-D		666+10		Lt																																			20					
66	2-D		666+10	668+45	Lt			368																																					
66	3-D		668+03		Rt																																			20					
66	4-D	135	670+00		Rt	20																																							
66	5-D		669+31		Lt			24																																					
67	1-D	136	677+00		Rt	20																																							
67	2-D		682+00	683+93.5	Lt			72	96															40				178															
67	3-D	347	684+00		Lt & Rt	582	2656																																					
67	4-D		682+00	683+70	Rt																																								
67	5-D		688+18	688+29	Lt & Rt			192																																					
67	6-D		688+18		Lt																																			10					
67	7-D		688+29		Rt																																								
67	8-D		688+97	690+00	Rt			117																																					
68	1-D	140	693+00		Lt & Rt	35																																							
68	2-D		693+03		Lt														86					4																			
68	3-D		693+03	696+23	Lt																																							
68	4-D		693+03	693+33	Lt & Rt			252																																					
68	5-D		695+25	695+53	Lt & Rt			194																																					
68	6-D		696+87		Lt & Rt			118																																					
68	7-D		696+81		Lt																																							
68	8-D		697+00	691+40	Lt & Rt			116																																					
68	9-D	340	701+34.4		Rt	4																																							
To be placed if as Directed by the Engineer						100																																						
69	1-D		3+50		Rt														12																									
Sub-total						4455	5370	8669	1347	16		300				72		978	840	464	534	1984	200	1823	1228	234	24	860	1226	377	340							340					10	80
Temporary Exist. USR 25 Connection						38	4	58					48		46																													
Exist. U.S.R 33 Overhead Approach						45		1120	386	20	60		126									224		50				176														22			
Exist. USR 33 & Prop. USR 25 Interchange						157																																						
Middle Pike Overhead Approach								1161		14			34							144						910																	
Exist. S.R 67 Overhead Approach								398		44	54																																	
Exist S.R. 67 & Prop USR 25 Interchange						260		1464																																				
Cemetery Rd - Blank Pike - S.R 67						58		150										286						4																			
Hengstler Rd. Overhead Approach						117		33		33			74					90																									
Seitz - Holden Rd. Connection						216	20	658					70	44	44									232		4	298																
Buckland - Holden Overhead Approach										12			70											1192		210				365	155		52									
National Rd. Overhead Approach						980	2169	2920									50			224						118							40									
National Rd & Prop. USR 25 Interchange						125	12	190																88																		
TOTAL TO GENERAL SUMMARY						6095	7575	16,821	1733	139	114	300	422	44	90	72	50	1354	840	832	534	2208	200	3389	1228	566	1232	860	1402	742	495		207			22	482	10			10	80
																		FEDERAL NON-PARTICIPATION																											
Exist. USR 25 & Prop. USR 33						5		1312					28											1034																			
Exist. USR 25 & Prop. USR 33 Interchange						31																																						
Temporary Exist. USR 25 Connection						59		280								36			74					1440		8																
TOTAL TO GENERAL SUMMARY						95		1592					28			36			74					2474		8							254				10					

DRAINAGE TABLE

FED. RD. DIVISION	STATE	PROJECT	
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AUGLAIZE COUNTY
AUG 25~5.05~

Plan & Profile Sheet No	Reference No	Detail sheet No	Station From	Station To	Side	I-5 Pipe Specials For I-3: 8"x8" Tee Each	10"x8" Tee Each	15"x8" Tee Each	15"x10" Tee Each	18"x8" Tee Each	24"x8" Tee Each	12"x24" Tee Each	8"x8" Wye Each	8"x10" Wye Each	8"x24" Wye Each	24"x18" Wye Each	8"x45° Curve Each	8"x30° Curve Each	12"x30° 12"x45°	24"x30° Curve Each	24"x45° Curve Each	For I-2: 12"x8" Wye Each	For S-27: 15"x30° Curve Each	15"x45° Curve Each	I-8 Standard No / Side Ditch Inlet (Mod as per plan) Each	I-8 Catch Basins Standard Number: 1-2A Each	1-3 Each	1-4 Each	Mod. as per plan: 2-3	2-3	2-2A Each	1-3 Each	1-4 Each	2-4 Each	I-8 Catch Basin 3-A Each	I-10 Dumped Rock Fill Cu.Yds.	I-14 Paved Gutter Type "I" Lin.Ft.	I-16 Inlets Abandoned Each	I-16 Catch Basins Abandoned Each	I-16 Manhole Abandoned Each	I-17 Cellular Retainingwalls Sq.Ft.	L-10 Sodding Sq.Yds.
SUB-TOTAL BROUGHT FORWARD						1	7			1			2	18		1	5	7	1	1	1	1	4	FEDERAL PARTICIPATION	43	10	3			1	1	2		373.4	285	2	3	1	1640	4413
64	1-D		635+00	636+22	Lt.																																			
64	2-D		636+22	638+10	Lt.																				1															
64	3-D		640+00	641+06.5	Lt & Rt.																				2															
64	4-D		643+35	643+43	Lt & Rt.																				2															
64	5-D	130	645+00		Lt & Rt.																						1													
64	6-D		645+30	645+92	Lt & Rt.																				2															
64	7-D		647+92		Rt.																																			
65	1-D		650+93		Rt.																																			
65	2-D		652+85		Rt.																																			
65	3-D		653+42		Rt.																																			
65	4-D		654+65		Rt.																																			
65	5-D		656+64		Rt.																																			
65	6-D	133	664+00		Rt.																																			
66	1-D		666+10		Lt.																																			
66	2-D		666+10	668+45	Lt.																																			
66	3-D		668+03		Rt.																																			
66	4-D	135	670+00		Rt.																																			
66	5-D		669+31		Lt.																																			
67	1-D	136	677+00		Rt.																																2.5					
67	2-D		682+00	683+93.5	Lt.						2			1						1																				
67	3-D	347	684+00		Lt & Rt.																													1		151					
67	4-D		682+00	683+70	Rt.																																			177
67	5-D		688+18	688+29	Lt & Rt.																																			
67	6-D		688+18		Lt.																																			
67	7-D		688+29		Rt.																																			
67	8-D		688+97	690+00	Rt.																																			
68	1-D	140	693+00		Lt & Rt.																									1							3.7					
68	2-D		693+03		Lt.																				1															
68	3-D		693+03	696+23	Lt.																																			350
68	4-D		693+03	693+33	Lt & Rt.																																			
68	5-D		695+25	695+53	Lt & Rt.																																			
68	6-D		696+87		Lt & Rt.																																			
68	7-D		696+81		Lt.																																			
68	8-D		697+00	697+40	Lt & Rt.																																			
68	9-D	340	701+34.4		Rt.																																			
	To be placed if & as Directed by the Engineer																																		100.0					1000
69	1-D		3+50		Rt.																																			
SUB-TOTAL						1	7			1	2		2	18	1	1	5	7	1	1	2		1	4		51	10	4		1	1	1	2	1		630.6	285	2	3	1	1640	5940
Temporary Exist USR 25 Connection																																								
Exist USR 33 Overhead Approach													1		1			1			1	1				3		1									1	1			475
Exist USR 33 & Prop. USR 25 Interchange																							2		2										5						500
Middle Pike Overhead Approach																									1		1												1	1		300
Exist. S.R. 67 Overhead Approach																																					1				100
Exist. S.R. 67 & Prop. USR 25 Interchange																									2												1	1			624
Cemetery Rd: Blank Pike - S.R. 67																									1																
Hengstler Rd Overhead Approach																	1																		13						1551
Seitz-Holden Rd. Connection																	1								2																200
Buckland-Holden Overhead Approach																	3								1																505
National Rd Overhead Approach																								1												2	146.7					
National Rd & Prop. USR 25 Interchange																		1					2		1																1818
TOTAL TO GENERAL SUMMARY						1	7			1	2		3	18	2	1	10	9	1	1	3	1	1	8	1	61	13	5	1	1	1	1	2	1	2	795.3	285	5	6	2	1640	12013
FEDERAL NON PARTICIPATION																																								
Exist USR 25 at Prop. USR 33								1	2																1													1			
Exist USR 25 & Prop 33 Interchange																																								
Temporary Exist. USR 25 Connection																									4																
TOTAL TO GENERAL SUMMARY								1	2																5													1			

DRAINAGE TABLE

DRAINAGE TABLE

FED. RD. DIVISION	STATE	PROJECT	
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AUGLAIZE COUNTY
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Plan & Profile Sheet No	Reference No	Detail Sheet No	Station From	Station To	Side	S-1 Concrete for Structures Class "E" Cu.Yds.			S-4 Reinforcing Steel lbs.		S-22 Removal of Portions of Existing Structures Lump		S-24 Removal of Existing Structures Lump	S-27 Pipe for Roadway Culverts Sec. M-6.8 (b) or Sec. M-6.6(b) 12" Lin.Ft.	15" Lin.Ft.	18" Lin.Ft.	21" Lin.Ft.	24" Lin.Ft.	27" Lin.Ft.	30"	36" Lin.Ft.	42" Lin.Ft.	48" Lin.Ft.	54" Lin.Ft.	66" Lin.Ft.	S-27 Sec. M-106.6(d) 24"	S-27 Sec. M-6.6(b) Reinforced Conc. Pipe for Roadway Culverts 8'-0"		S-27 Paved Bituminous Coated Corrugated Metal Pipe for Rdwy Culverts (Sec. M-64(d)) 30" Lin.Ft.	15" Lin.Ft.	24"	36"	18"	21"	S-27 43"x27" Sec. M-6.4(i)(d) Pipe or 38"x24" Sec M-206.6(b) Pipe Lin.Ft.	S=28 gage(5-3) Sectional Corrugated Metal Structure 15'-10"x 9'-10" Lin.Ft.		Item Special Expansion Anchor Bolts	Item Special Wells Abandoned	Item Special Cistern Abandoned	S-27 50"x31" Sec M-64(d) Pipe or 45"x29" Sec M-206.6(b) Pipe Lin. Ft.	Remarks
														FEDERAL PARTICIPATION																												
SUB-TOTAL BROUGHT FORWARD							77.56								1875	72	498	304	760	1114	342	840	508	246		40				75							352			1			
64	1-D		635+00	636+22	Lt																																				
64	2-D		636+22	638+10	Lt																																				
64	3-D		640+00	641+06.5	Lt & Rt																																				
64	4-D		643+35	643+43	Lt & Rt																																				
64	5-D	130	645+00		Lt & Rt		1.74											320																							
64	6-D		645+30	645+92	Lt & Rt																																				
64	7-D		647+92		Rt																																				
65	1-D		650+93		Rt																																				
65	2-D		652+85		Rt																																				
65	3-D		653+42		Rt																																				
65	4-D		654+65		Rt																																				
65	5-D		656+64		Rt																																				
65	6-D	133	664+00		Rt		0.52								70																										
66	1-D		666+10		Lt																																				
66	2-D		666+10	668+45	Lt		0.1																																		
66	3-D		668+03		Rt																																				
66	4-D	135	670+00		Rt		0.52								70																										
66	5-D		669+31		Lt		0.1																																		
67	1-D	136	677+00		Rt		0.52								66																										
67	2-D		682+00	683+93.5	Lt																																				
67	3-D	347	684+00		Lt & Rt		7.7			251														328																	
67	4-D		682+00	683+70	Rt																																				
67	5-D		688+18	688+29	Lt & Rt																																				
67	6-D		688+18		Lt																																				
67	7-D		688+29		Rt		0.1																																		
67	8-D		688+97	690+00	Rt		0.1																																		
68	1-D	140	693+00		Lt & Rt		0.7										158																								
68	2-D		693+03		Lt																																				
68	3-D		693+03	696+23	Lt																																				
68	4-D		693+03	693+33	Lt & Rt		0.1																																		
68	5-D		695+25	695+53	Lt & Rt		0.1																																		
68	6-D		696+87		Lt & Rt																																				
68	7-D		696+81		Lt																																			1	
68	8-D		697+00	697+40	Lt & Rt																																				
68	9-D	349	701+34.4		Rt		0.51																																30				
To be placed if and as Directed by the Engineer																																									
69	1-D		3+50		Rt																																				
SUB-TOTAL							90.37			251					2081	72	656	624	760	1114	342	840	508	574		40				30							352			1	1	
Temporary Exist USR 25 Connection							1.62									114				80-3'																				
Exist U.S.R. 33 Overhead Approach							6.7					Lump													48														32			
Exist USR 33 & Prop USR 25 Interchange							3.72								190		66		98	78										28											
Middle Pike Overhead Approach																																									
Exist S.R. 67 Overhead Approach																																									
Exist S.R. 67 & Prop USR 25 Interchange							5.98								258			82															58	60						96
Cemetery Rd - Blank Pike - S.R. 67							3.24									64	102	90																						
Hengstler Rd. Overhead Approach							4.4													166																				
Seitz - Holden Rd. Connection							7.5																												396					
Buckland - Holden Overhead Approach																																								
National Rd Overhead Approach							19.7						Lump														248													
National Rd & Prop USR 25 Interchange							3.94								136					114	116									30										
TOTAL TO GENERAL SUMMARY							147.17			251		Lump	Lump		2665	250	824	796	858	1552	458	840	508	574	48	40	248			30	133		58	60	396		352		32	1	1	96
															FEDERAL NON-PARTICIPATION																											
Exist USR 25 at Prop. USR 33							1.0					Lump																						20				5	1	1	
Exist USR 25 & Prop. 33 Interchange							2.82										68																104	60							
Temporary Exist USR 25 Connection							3.26									56		160		100																			1		
TOTAL TO GENERAL SUMMARY							7.08					Lump				56	68	160		100													104	60	20			5	2	1	

PROPOSED U.S.R. 25 TABLES

FED. RD. DIVISION	STATE	PROJECT	
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AUGLAIZE COUNTY
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DRIVE AND APPROACH TABLE

Plan & Profile Sheet No.	Reference No.	Detail Sheet No.	Station	I-18 Stabilized Crushed Aggregate for Shoulders & Approaches	I-22 Subbase	B-119 Crushed Aggregate Base Course	T-32 Aggregate for Road Mix 0.0375 Cu.Yd. per Sq.Yd.	T-32 Road Mix Bituminous Material 0.7 gal/Sq.Yd.	T-32 Aggregate for Choke .004 Cu.Yd. per Sq.Yd.	T-32 Seal Coat Bituminous Material 0.25 gal. per Sq.Yd.	T-32 Aggregate for Seal Coat .008 Cu.Yd. per Sq.Yd.	T-30 Bituminous Prime Coat 0.35 gal/per Sq.Yd.	T-71 Reinforced Portland Cement Concrete Pavement		Remarks
				Cu.Yd.	Cu.Yd.	Cu.Yd.	Cu.Yd.	Gals	Cu.Yd.	Gal.	Cu.Yd.	Gal.	Sq.Yd.		
42	1-A	42	319-33.33		0.8								4.6		
46	1-A	37	377+00	68											
51	1-A	51	449+60	57											
51	2-A	37	454+00	68											
58	1-A	37	559+00	68											
59	1-A	59	572+66.07		61.8	73.7	19.0	353.9	2.0	126.4	40	185.6			
63	1-A	63	632+82.54		61.8	73.7	19.0	353.9	2.0	126.4	4.0	185.6			
63	2-A	63	632+82.54	17	61.8	73.7	19.0	353.9	2.0	126.4	4.0	185.6			
65	1-A	37	654+00	68											
Total to U.S. 25 Calculations				346	186.2	221.1	57.0	1061.7	6.0	379.2	12.0	557.4	4.6		
Federal Participation															

APPROACH SLAB TABLE

Plan & Profile Sheet No.	Station From	Station To	I-7 Reinforced Concrete Approach Slab As Per Plan T=11½"	I-7 Reinforced Concrete Approach Slab T=11½"	I-7 Reinforced Concrete Approach Slab T=13"	I-7 Reinforced Concrete Approach Slab As Per Plan T=13"	I-18 Stabilized Crushed Aggregate for Shoulders & Approaches	I-22 Subbase	E-1 Compacted Subgrade	B-33 3" Bituminous Macadam Base Course	T-31 Bituminous Seal Coat	T-31 No 6 Aggregate for Seal Coat		Remarks
			Sq.Yds.	Sq.Yds.	Sq.Yds.	Sq.Yds.	Cu.Yd.	Cu.Yd.	Sq.Yds.	Sq.Yds.	Gal.	Cu.Yd.		
Federal Participation														
43	322+12.76	322+37.76			133.3		10.0	40.6	133.3	66.7	16.7	0.5		
43	323+82.36	324+07.36			133.3		10.0	40.6	133.3	66.7	16.7	0.5		
51	447+99.67	448+19.67		106.7			7.6	32.5	106.7	66.6	16.7	0.5		
51	449+93.33	450+13.33		106.7			7.6	32.5	106.7	66.6	16.7	0.5		
Subtotal				213.4	266.6		35.2	146.2	480.0	266.6	66.8	2.0		
From Exist. U.S. 33 Approach Slab Table				106.6										
From Middle Pike Approach Slab Table				66.8										
From S.R. 67 Approach Slab Table						244.4				8.3	2.1	0.1		
From Hengstler Road Approach Slab Table				66.8										
From Buckland-Holden Rd. Approach Slab Table				66.8										
From National Rd. Approach Slab Table			211.1							5.6	1.4	1.0		
Total to U.S. 25 Calculations							35.2	146.2	480.0	260.5	70.3	3.1		
Total to U.S. 25 General Summary			211.1	586.4	266.6	244.4								

I-4 UNDERDRAIN

Plan & Profile Sheet No.	Reference No.	STATION From	STATION To	Side	I-4 6" Underdrain	I-4 6" Underdrain Sec M6-4(h)	I-4 8" Outlet for Underdrain	I-5 Pipe Specials for I-4 Underdrains Each 6"x30°	6"x6"-7°	6"x45°	6"x6"Wye	6"-90°	
					Lin.Ft.	Lin.Ft.	Lin.Ft.						
		FEDERAL PARTICIPATION											
44	1-U	337+00	345+00	Rt.	896		46'	1	1				
44	2-U	337+00	345+00	Lt.	800								
45	1-U	361+00	365+00	Rt.	496		30	1	1				
45	2-U	361+00	365+00	Lt.	400								
46	1-U	365+00	371+50	Rt.	650								
46	2-U	365+00	371+50	Lt.	650								
46	3-U	375+75	380+00	Lt.	425								
47	1-U	380+00	380+66	Lt.	71					1			
47	2-U	380+80	391+09	Lt.	1167		30	2					
47	3-U	391+19	395+00	Lt.	381								
48	1-U	395+00	398+95	Lt.	393		48	1					
53	1-U	484+50	485+00	Lt.	50								
54	1-U	485+00	489+86	Lt.	586		30	1					
54	2-U	490+01	493+73	Lt.	392						1		
54	3-U	493+80.5	498+22	Lt.	518						1		
54	4-U	498+26	499+25	Lt.	102					1			
55	1-U	506+00	515+00	Lt.	998		30	1	1				
55	2-U	506+00	515+00	Rt.	896								
58	1-U	515+00	524+00	Lt.	900								
58	2-U	515+00	524+00	Rt.	900								
62	1-U	607+89	604+04	Rt.		146							*1
64	1-U	636+23	644+90	Rt.	972			1					
64	2-U	645+10	650+00	Rt.	516		30	1					
65	1-U	650+00	664+49.86	Rt.	1450								
86	1-U	660+49.66	662+00	Rt.	152		46	1					
Subtotal					14,763	146	290	10	3	2	2	1	
Prop U.S. 25 Temp. Conn. Table					426								
National Road Approach					472		36	1		3			
National Road Interchange					336			1	1				
Total to U.S. 25 General Summary					15,997	146	326	12	4	5	2	1	
Federal Participation													
Non-Federal Participation													
Prop. U.S. 25 Temp. Connection					1588		30	1					
Total to U.S. 25 General Summary					1588		30	1					
Non-Federal Participation													

* Sec. M-6.4(h)

GUARD RAIL TABLE

Plan & Profile Sheet No.	STATION From	STATION To	Reference No.	I-15 Guard Rail Steel Beam Type "Deep" Straight Lin.Ft.	I-15 Guard Rail Steel Beam Type Deep Curved - Radius Given Linear Ft. 9'R	20'R	16'R	21'R	31.5 R	39.5R	40'R	41.5R	I-15 Guard Rail Removed and Stored Lin.Ft.	Remarks
				FEDERAL PARTICIPATION										
42	319+00±	320+00±	1-G	104.5										
42	317+28.16	320+00	2-G	271.84										
42	316+96±	Across	3-G	112.5										
43	320+00	322+56	1-G	256.0										
43	320+00	322+13.5	2-G	228.16		62.5								
43	323+64.5	6+32(A)	3-G	1075.0		62.5								
43	324+00	12+95(C)	4-G	650.0										
43	331+92	335+00	5-G	308.0										
43	6+27(A)	335+00	6-G	487.5	25									
				958.0										
44	335+00	335+62.5	1-G	62.5										
44	335+00	335+54.5	2-G	54.5										
45	351+50	368+50	1-G	1225.0										
51	445+50.21	451+87.71	1-G	463.64										
51	447+87.54	450+32	2-G	30.80		50								
														Deduct Bridge Limits Sta. 448+19.67 to Sta. 449+93.33 = 173.66'
51	446+50.29	452+62.79	3-G	436.64										
51	447+67.54	450+32	4-G	30.80		50								
59	571+87.5	572+12.5	1-G	25.0										
63	632+03	632+28	1-G	25.0										
63	633+39	633+64	2-G	25.0										
Sub-Total				6076.78	25	225								
Temp. Prop. U.S. 25 Connection				1450.00										
Exist. U.S. 33 Approach				2650.00					100	50	125			
Middle Pike Approach				1700.0										
S.R. 67 Approach				1,725.0										
Hengstler Road Approach				1462.5			25	50						
Buckland-Holden Approach				1475.0										
National Road Approach				1,450.0								62.5	75	
National Road Interchange				712.5										
Total to U.S.R.25 General Summary				18,707.5	25	225	25	50	100	50	125	62.5	75	
Federal Participation				19364.28	662.5									
Non-Federal Participation														
Exist. U.S. 25 at Prop. U.S. 33				100										
Total to U.S. 25 General Summary				100										
Non-Federal Participation														

location may be altered slightly by Engineer, to avoid interference with Guard Rail Posts

OVERHEAD SIGNS

Plan and Profile Sheet No.	* STATION	Reference No.	Number Each	Span Lin. Ft.	Standard Drawing Number and Type	Remarks
43	324+00	OS-1	1	46	OS-2-A	
45	353+00	OS-1	1	45'	OS-2-A	
49	416+00	OS-1	1	44'	OS-2-A	
51	444+00	OS-1	1	44'	OS-2-A	
66	692+00	OS-1	1	44'	OS-2-A	
Total to General Summary			5			
Federal Participation.						

PROPOSED U.S.R 25 TABLES

PROPOSED U.S.R. 25 TABLES

FED. RD. DIVISION	STATE	PROJECT	
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AUGLAIZE COUNTY
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EARTHWORK TABLE

ROADSIDE IMPROVEMENT L-9

Sheet No.	STATION From	STATION To	Excavation Cu.Yd.	Embankment Cu.Yd.	Embankment +15% Cu.Yd.	Seeding and Protection Sq.Yds.
70	316+00	320+00	1298	47,830	55,005	11,606
73	320+00	335+00	1288	200,298	230,343	25,716
76	335+00	350+00	6117	16,861	19,390	17, 559
79	350+00	365+00	17,538	36,728	42,237	22,789
82	365+00	380+00	13,202	9,025	10,379	19,317
85	380+00	395+00	2563	20,961	24,105	19,476
88	395+00	410+00	14,625	3337	3838	16,693
91	410+00	425+00	30,433	15	17	16,200
93	425+00	440+00	34,310	2741	3152	23,095
96	440+00	455+00	13,896	33,317	38315	23,511
100	455+00	470+00	6116	14,446	16,613	17,576
102	470+00	485+00	82,866	4	5	22,144
105	485+00	500+00	1919	35,530	40,860	20,744
107	500+00	515+00	40,571	10,659	12,258	22,272
110	515+00	530+00	126,225	0	0	30,011
112	530+00	545+00	26,657	452	520	19,928
114	545+00	560+00	6430	34,314	39,461	20,734
117	560+00	575+00	16,497	16,073	20,784	27,384
119	575+00	590+00	2260	30,676	35,510	29,045
123	590+00	605+00	2078	30,782	35,399	24,456
124	605+00	620+00	2299	24,168	27,793	19,262
127	620+00	635+00	2733	13,878	15,960	17,107
130	635+00	650+00	740	23,205	26,686	18,066
132	650+00	664+49.66*	13,461	3686	4241	17,437
135	660+47.66*	675+00	33,800	0	0	17,006
138	675+00	690+00	21,483	10,570	12,156	17,769
141	690+00	705+00	5126	6705	7711	17,205
143	705+00	6+70	1249	1279	1471	12,349
	Sub-Total		527,800	629,744	724,209	566,685
X-Sections Additions & Deductions			+ 1919	- 3,431	- 3,946	—
Total to Main Line Calculations.			529,719	626,313	720,263	566, 685
Temp. Exist. 25 Connection			6663			47. 555
Exist. U.S.33 Approach			2238			15, 434
Exist. U.S.33 Interchange			5748			47, 240
Middle Pike Approach			962			16. 065
S.R.67 Approach			2414			17, 615
S.R.67 Interchange			20,466			60,745
Cemetery Rd.-Blanx Pike - S.R.67 Conn.			3851			20.204
Hengstler Rd. Approach			921			14, 850
Seitz-Holden Road Connection			1040			10.667
Buckland-Holden Road Approach			692			16.892
National Road Approach			893			15.277
National Road Interchange			6926			46,319
Total to U.S.25. General Summary			561,935			897. 546
Non-Federal Participation :						
Exist U.S.R 25 & Prop U.S 33 Interchange			3936			26,723
Temp. Exist. U.S.25 Connection			5593			34,565
Exist U.S. 25 South of Wapakoneta			279			1341
Total to U.S.25 General Summary			9808			62, 629

* Note: Sta. 664+49.66 (Back) = Sta. 660+47.66 (Ahead)

MAIN LINE TYPICAL SECTIONS EARTHWORK CORRECTIONS

Deduct from Fill:

1. Sta. 317+00 to Sta. 322+37.22	= 537.22	Lin.Ft.
2. Sta. 323+81.84 to Sta 341+50	= 1768.16	Lin. Ft.
3. Sta. 343+00 to Sta. 361+25	= 1825.00	Lin.Ft.
4. Sta. 371+00 to Sta 394+50	= 2350.00	Lin.Ft.
5. Sta. 397+25 to Sta. 399+50	= 225.00	Lin.Ft.
6. Sta. 407+25 to Sta. 410+50	= 325.00	Lin.Ft.
7. Sta. 427+00 to Sta. 428+00	= 100.00	Lin.Ft.
8. Sta. 437+00 to Sta. 441+00	= 400.00	Lin.Ft.
9. Sta. 442+50 to Sta 448+19.15	= 569.15	Lin.Ft.
10 Sta. 449+93.85 to Sta. 467+30	= 1756.15	Lin.Ft.
11 Sta. 486+00 to Sta. 506+50	= 2050.00	Lin.Ft.
12. Sta. 537+00 to Sta. 540+50	= 350.00	Lin.Ft.
13. Sta. 548+50 to Sta. 656+50	= 10800.00	Lin.Ft.
14. Sta. 682+00 to Sta. 698+50	= 1650.00	Lin.Ft.
Total	= 24,705.68	Lin.Ft.

(24,705.28' x 3'x 7.5"/12 ÷ 27) x 2 = 3,431 Cu.Yd.

Add to Cut:

1 Sta 341+50 to Sta. 343+00 =	150.00	Lin.Ft.
2 Sta. 361+25 to Sta. 371+00 =	975.00	Lin.Ft.
3. Sta 394+50 to Sta. 397+25 =	275.00	Lin.Ft.
4 Sta. 399+50 to Sta. 407+25 =	775.00	Lin.Ft.
5 Sta 410+50 to Sta. 427+00 =	1650.00	Lin.Ft.
6 Sta 428+00 to Sta 437+00 =	900.00	Lin.Ft.
7 Sta 441+00 to Sta 442+50 =	150.00	Lin.Ft.
8. Sta. 467+50 to Sta. 486+00 =	1850.00	Lin.Ft.
9 Sta. 506+50 to Sta. 537+00 =	3050.00	Lin.Ft.
10. Sta. 540+50 to Sta. 542+50 =	800.00	Lin.Ft.
11. Sta 656+50 to Sta. 682+00 =	2952.22	Lin.Ft.
12 Sta. 698+50 to Sta. 701+00	250.00	Lin.Ft.
13. Sta. 701+00 to Sta. 701+75 (one side) =	Not included in Total	
Total =	13,777.22	Lin.Ft.
(13,777.22 x 3 x 7.5"/12 ÷ 27) x 2 =	1914	Cu.Yd.
(75.00 x 3' x 7.5"/12 ÷ 27) =	5	Cu.Yd.
Total =	1919	Cu.Yd.

EARTHWORK CALCULATIONS

Federal Participation:

Excavation Prop. U.S.R. 25 =	529,719	Cu.Yd.
Channel Excavation (Net Available) =	4,881	Cu.Yd.
I-4 Trench Excavation (14,973 x 3.63' x 16/12 ÷ 27) =	2,610	Cu.Yd.
Total	537,210	Cu.Yd.
Unsuitable Material (deduct)	- 10	Cu.Yd.
Excavation available to reduce Borrow	537,210	Cu.Yd.
Embankment +15% on Prop.U.S.R. 25	720,263	Cu.Yd.
Borrow Required on Prop. U.S.R. 25	183,063	Cu.Yd.
Borrow Required: Exist. U.S. 25 Temporary Connection	36,489	Cu.Yd.
" " Exist U.S. 33 Road Overhead Approach	39,966	Cu.Yd.
" " Exist. U.S. 33 & Prop. U.S. 25 Interchange	65,018	Cu.Yd.
" " Middle Pike Overhead Approach	35,632	Cu.Yd.
" " S.R. 67 Road Overhead Approach	53.660.	Cu.Yd.
" " S.R. 67 & Prop. U.S.25 Interchange	13,903	Cu.Yd.
" " Cemetery Road - Blanx Pike - S.R.67 Connection	8,941	Cu.Yd.
" " Hengstler Road Overhead Approaches	26,071	Cu.Yd.
" " Seitz-Holden Road Approach	4925	Cu.Yd.
" " Buckland - Bingville - Holden Road Overhead Approach	40,194	Cu.Yd.
" " National Road Overhead Approach	52,430	Cu.Yd.
" " National Road Interchange	64,651	Cu.Yd.
Excavation available to reduce Borrow National Rd. & Roadside Parks	31,387	Cu.Yds.
TOTAL BORROW to Federal Participation General Summary	593,556	Cu.Yd.

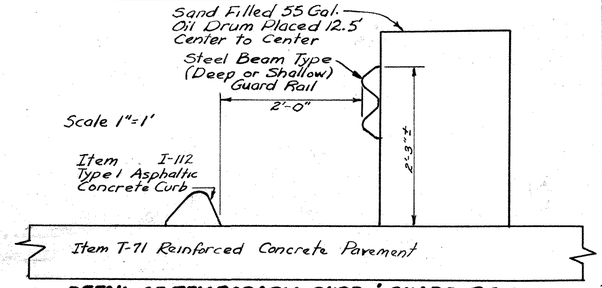
Non-Federal Participation

Borrow Required: Exist. U.S.25 South of Wapakoneta	83	Cu.Yd.
" " Exist. U.S.25 & Prop. US.33 Interchange	9,827	Cu.Yd.
Temp. Exist. U.S. 25 Connection	15,349	Cu.Yd.
Total	24, 959	Cu.Yd.

Total Borrow to NON-FEDERAL Participation General Summary 24,959 Cu.Yd.

R/W FENCE TYPE "A" (MODIFIED) TABLE

From STATION	To STATION	Side	Linear Feet	Remarks
On Right Sta 261+65 Exist. U.S.R. 25	On Right Sta. 120+37 Exist. U.S.R. 25 Temp. Conn.	Lt.	2072	
On Right Sta. 122+28 Exist. U.S.R. 25 Temp. Conn.	On Right Sta. 149+00 Exist. U.S.R. 25 Temp. Conn.	Lt.	2636	
On Right Sta. 273+80 Exist. U.S.R. 25	On Left Sta. 149+00 Exist. U.S.R. 25 Temp. Conn.	Lt.	5063	
TOTAL TO SUMMARY	Total to Non-Federal Participation		9771	
	BEGIN FEDERAL PARTICIPATION			
On Left Sta. 149+00 Exist. U.S.R. 25 Temp. Conn.	Sta. 323+41 U.S.R 25	Lt.	2224	
On Right Sta. 149+00 Exist U.S.R. 25 Temp. Conn.	On Right Sta. 150+00 Exist. U.S.R. 25 Temp. Conn.	Lt.	99	
On Right Sta. 151+17 Exist. U.S.R. 25 Temp. Conn.	On Right Sta. 154+70 Exist. U.S.R. 25 Temp. Conn.	Lt.	347	
Sta. 322+82	On Right Sta. 879+00 Exist. U.S.R. 33	Rt.	1876	
Sta. 323+95	On Right Sta. 861+44 Exist. U.S.R. 33	Lt.	1885	
On Right Sta. 861+24 Exist. U.S.R. 33	On Right Sta. 858+40 Exist. U.S.R. 33	Lt.	290	
On Left Sta. 879+00 Exist. U.S.R. 33	Sta. 351+51	Rt.	2136	
On Left Sta. 856+40 Exist. U.S.R. 33	Sta. 352+70	Lt.	1768	
Sta. 351+99	Sta. 370+63	Rt.	1864	
Sta 353+28	Sta. 370+63	Lt.	1735	
Sta. 372+01	Sta. 407+50	Rt.	3522	
Sta. 371+98	Sta. 407+96	Lt.	3668	
Sta. 407+62	On Right Sta. 126+30 S.R.67	Rt.	3338	
Sta. 408+14	On Right Sta. 105+00 S.R.67	Lt.	2416	
On Left Sta 105+00 S.R. 67	On Left Sta 106+35 S.R.67	Lt.	135	
On Left Sta. 106+55 S.R. 67	Sta 448+10	Lt.	2957	
On Left Sta. 126+30 S.R.67	Sta 448+89	Rt.	1625	
Sta. 450+03	Sta 474+00	Rt.	2397	
Sta. 449+36	Sta 483+13	Lt.	3377	
Sta. 487+67	Sta. 513+23	Rt.	2566	
Sta 491+28	Sta. 512+01	Lt.	2073	
Sta. 514+24	Sta. 541+01	Rt.	2677	
Sta. 512+84	Sta. 601+46	Lt.	8862	
Sta. 541+37	Sta. 602+65	Rt.	6154	
Sta. 604+29	Sta. 667+23	Rt.	8787	
Sta. 603+03	On Right Sta. 4+76 National Road	Lt.	10011	
Sta 687+50	On Right Sta. 17+49 National Road	Rt.	1422	
On Right Sta. 16+03 National Road	On Right Sta 16+51 National Road	Rt.	56	
On Right Sta. 16+91 National Road	On Right Sta. 20+50 National Road	Rt.	159	
On Left Sta. 20+50 National Road	On Left Sta. 18+20 National Road	Rt.	330	
On Left Sta. 18+00 National Road	Sta. 705+97.44 U.S.R. 25	Rt.	775	
On Left Sta. 4+71 National Road	Sta. 703+00 U.S.R. 25	Lt.	772	
TOTAL TO SUMMARY	Total to Federal Participation		82,305	
	Total to Non-Federal Participation		9771	
	Total		92,076	



DETAIL OF TEMPORARY CURB & GUARD RAIL

Steel Beam Type Guard Rail (Deep or Shallow) may be new or used as approved by the Engineer. Guard Rail Elements will be constructed as shown on the Standard Construction Drawings and bolted to the Oil Drums instead of Posts. Unit Price bid per Lin. Ft. Item I-15 Temp. Guard Rail as per plan to include complete in place installation, as shown above; with the exception of the Asphaltic Concrete Curb

STATION TO STATION	ITEM I-112 TEMPORARY CURB	ITEM I-15 TEMP. GUARD RAIL
Sht 42 Sta 165+81 Lt Ramp B to 166+06 Lt.		25'
Sht 42 Sta 165+50 to Sta 166+12 Ramp B Lt.	62'	
Sht 42 Sta. 165+50 Ramp A to 166+91 Ramp A Rt.	141'	
Sht 42 Sta 165+86 Ramp A to 166+91 Ramp A Rt.		100'
Sht 42 Sta 167+56 Ramp A to 169+10 Ramp A Rt.	154	150
Sht 154 Sta 15+70 Ramp A to 18+13 Rt. Ramp D		* 362.5
Sht 154 Sta 15+65 Ramp A to 18+10 Rt. Ramp D	* 395	

Table

* Non Federal Participation Proposed Future U.S.R 33

PROPOSED U.S.R. 25 TABLES

CALCULATIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

32/466

AUGLAIZE COUNTY
AUG.-25-5.05

ITEM T-71-9" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT

~ FEDERAL PARTICIPATION ~

From Typical Section №1	28,144.72 Lin.Ft.	
From Typical Section №2	3650.00 Lin.Ft.	
From Typical Section №3	6774.22 Lin.Ft.	
Total =	38568.94 Lin.Ft.	
38568.94 x 24 x 2 ÷ 9 =		205,701.0 Sq.Yd.
Add For Temporary Exist. U.S.R. 25 Connection		5499.9 Sq.Yd.
Exist. U.S.R. 33 & Prop. U.S.R. 25 Interchange		9500.0 Sq.Yd.
Add For Exist. S.R. 67 & Prop. U.S.R. 25 Interchange		13399.0 Sq.Yd.
Add For National Road Overhead Approach		5665.5 Sq.Yd.
Add For National Road & Prop. U.S.R. 25 Interchange		9933.0 Sq.Yd.
From Prop. U.S.R. 25 Approach Table		4.6 Sq.Yd.
TOTAL =		249,703.0 Sq.Yd.
TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION)		249,703. Sq.Yd.

~ FEDERAL NON-PARTICIPATION ~

Exist. U.S.R. 25 & Prop. U.S.R. 33 Interchange		7333.0 Sq.Yd.
Temporary Exist. U.S.R. 25 Connection		9224.0 Sq.Yd.
TOTAL =		16557.0 Sq.Yd.
TOTAL TO GENERAL SUMMARY (FEDERAL NON-PARTICIPATION)		16,557. Sq.Yd.

ITEM T-35 ASPHALTIC CONCRETE SURFACE COURSE 70-80 TYPE "A"

~ FEDERAL PARTICIPATION ~

Add For Temporary Exist. U.S.R. 25 Connection	47.9 Cu.Yd.
" " Exist. U.S.R. 33 Overhead Approach	164.5 Cu.Yd.
" " " " 33 & Prop. U.S.R. 25 Interchange	0.2 Cu.Yd.
" " Middle Pike Overhead Approach	109.3 Cu.Yd.
" " Exist. S.R. 67 " "	241.7 Cu.Yd.
" " " " & Prop. U.S.R. 25 Interchange	0.4 Cu.Yd.
" " Henstler Road Overhead Approach	105.7 Cu.Yd.
" " Seitz-Holden Road Connection	13.1 Cu.Yd.
" " Buckland Holden Overhead Approach	112.6 Cu.Yd.
" " National Road " "	15.9 Cu.Yd.
~~From General Note Sheet~~	~~5.0 Cu.Yd.~~
TOTAL =	811.3 Cu.Yd.
TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION)	812 Cu.Yd.

~ FEDERAL NON-PARTICIPATION ~

Add For Exist. U.S.R. 25 South of Wapakoneta	54.5 Cu.Yd.
" " Temporary Exist. U.S.R. 25 Connection	8.0 Cu.Yd.
~~From General Note Sheet~~	~~3.0 Cu.Yd.~~
TOTAL =	62.5 Cu.Yd.
TOTAL TO GENERAL SUMMARY (FEDERAL NON-PARTICIPATION	63 Cu.Yd.

ITEM-B-35 ASPHALTIC CONCRETE LEVELING COURSE

~ FEDERAL RARTICIPATION ~

Add For Temporary Exist. U.S.R. 25 Connection	52.2 Cu.Yd.
" " Exist. U.S.R. 33 Overhead Approach	157.0 Cu.Yd.
" " " " " and Prop. U.S.R. 25 Interchange	0.2 Cu.Yd.
" " Middle Pike Overhead Approach	155.5 Cu.Yd.
" " Exist. S.R. 67 " "	235.0 Cu.Yd.
" " " " & Prop. U.S.R. 25 Interchange	0.4 Cu.Yd.
" " Hengstler Road Overhead Approach	117.4 Cu.Yd.
" " Seitz-Holden Road Connection	13.6 Cu.Yd.
" " Buckland-Holden Overhead Approach	160.5 Cu.Yd.
Add For National Road Overhead Approach	13.0 Cu.Yd.
TOTAL =	904.8 Cu.Yd.
TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION)	905 Cu.Yd.

~ FEDERAL NON-PARTICIPATION ~

Add For Exist. U.S.R. 25 South of Wapakoneta	44.6 Cu.Yd.
Temporary Exist. U.S.R. 25 Connection	12.8 Cu.Yd.
TOTAL =	57.4 Cu.Yd.
TOTAL TO GENERAL SUMMARY (FEDERAL NON-PARTICIPATION	58 Cu.Yd.

ITEM B-35 ASPHALTIC CONCRETE BASE COURSE

~ FEDERAL PARTICIPATION ~

Add For Temporary Exist. U.S.R. 25 Connection	144.2 Cu.Yd.
" " Exist. U.S.R. 33 Overhead Approach	353.9 Cu.Yd.
" " " " " & Prop. U.S.R. 25 Interchange	0.2 Cu.Yd.
" " Exist. S.R. 67 Overhead Approach	532.3 Cu.Yd.
" " " " " & Prop. U.S.R. 25 Interchange	0.6 Cu.Yd.
TOTAL =	1031.2 Cu.Yd.
TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION)	1031 Cu.Yd.

~ FEDERAL NON-PARTICIPATION ~

Add For Exist. U.S.R. 25 South of Wapakoneta	14.3 Cu.Yd.
TOTAL =	14.3 Cu.Yd.
TOTAL TO GENERAL SUMMARY (FEDERAL NON-PARTICIPATION)	15 Cu.Yd.

ITEM T-30 BITUMINOUS PRIME COAT

~ FEDERAL PARTICIPATION ~

Add For Temporary Exist. U.S.R. 25 Connection	328.4 Gals.
" " Exist. U.S.R. 33 Overhead Approach	1534.5 Gals.
" " " " " & Prop. U.S.R. 25 Interchange	1.0 Gals
" " Middle Pike Overhead Approach	1052.7 Gals.
" " Exist. S.R. 67 Overhead Approach	2303.5 Gals.
" " " " " & Prop. U.S.R. 25 Interchange	2.6 Gals.
" " Cemetery Rd Blank Pike Connection & Blank Pike S.R. 67 Connection	1890.0 Gals.
" " Hengstler Road Overhead Approach	1075.2 Gals.
" " Seitz-Holden Road Connection	2608.4 Gals.
" " Buckland-Holden Overhead Approach	1106.0 Gals.
" " National Road " "	126.4 Gals.
From Prop. U.S.R. 25 Approach Table	557.4 Gals.
TOTAL =	12,586.1 Gals.
TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION)	12,586. Gals.

~ FEDERAL NON-PARTICIPATION

Add For Exist. U.S.R. 25 South of Wapakoneta	103.2 Gals.
" " Temporary Exist. U.S.R. 25 Connection	83.8 Gals.
TOTAL =	187.0 Gals
TOTAL TO GENERAL SUMMARY (FEDERAL NON-PARTICIPATION)	187. Gals.

ITEM B-33-3" BITUMINOUS MACADAM BASE COURSE TYPE "A-B"

~ FEDERAL PARTICIPATION ~

From Typical Section №1	28,144.72 Lin.Ft.	
" " " №2	3650.00 Lin.Ft.	
" " " №3	6774.22 Lin.Ft.	
Total =	38,568.94 Lin.Ft.	
38,568.94 x 2 (10+3) ÷ 9 =		111,421.3 Sq.Yd.
Add For Temporary Exist. U.S.R. 25 Connection		190.1 Sq.Yd.
" " Exist. U.S.R. 33 & Prop. U.S.R. 25 Interchange		3310.0 Sq.Yd.
" " " S.R. 67 & " " " "		3930.0 Sq.Yd.
" " National Road & Prop. U.S.R. 25 Interchange		3860.0 Sq.Yd.
From Prop. U.S.R. 25 Approach Slab Table		280.5 Sq.Yd.
Deduction for Roadside Park		- 2219 Sq.Yds.
Deduct For Interchange Ramps		- 7470. Sq.Yd.
TOTAL =		112,703 Sq.Yd.
TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION)		112,703 Sq.Yd.

ITEM T-31 SEAL COAT BITUMINOUS MATERIAL

~ FEDERAL PARTICIPATION ~

From Typical Section №1	28,144.72 Lin.Ft.	
" " " №2	3650.00 Lin.Ft.	
" " " №3	6774.22 Lin.Ft.	
Total =	38,568.94 Lin.Ft.	
38,568.94 x 2 (10+3) x 0.25 ÷ 9 =		27,855.3 Gals.
Add For Temporary Exist. U.S.R. 25 Connection		47.5 Gals.
" " Exist. U.S.R. 33 & Prop. U.S.R. 25 Interchange		827.0 Gals.
" " " S.R. 67 & " " " "		982.3 Gals.
" " National Road & " " " "		815.0 Gals.
From Prop. U.S.R. 25 Approach Slab Table		70.3 Gals.
Deduction for Roadside Park		- 55.4 Gals
Deduct For Interchange Ramps		- 1868 Gals.
TOTAL =		28,175 Gals.
TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION)		28,175 Gals.

ITEM T-31 №6 AGGREGATE FOR SEAL COAT @ 0.008 Cu.Yd/Sq.Yd.

~ FEDERAL PARTICIPATION ~

From Typical Section №1	28,144.72 Lin.Ft.	
" " " №2	3650.00 Lin.Ft.	
" " " №3	6774.22 Lin.Ft.	
Total =	38,568.94 Lin.Ft.	
38,568.94 x 2 (10+3) x 0.008 ÷ 9 =		891.4 Cu.Yd.
Add For Temporary Exist. U.S.R. 25 Connection		1.5 Cu.Yd.
" " Exist. U.S.R. 33 & Prop. U.S.R. 25 Interchange		26.4 Cu.Yd.
" " " S.R. 67 & " " " "		31.4 Cu.Yd.
" " National Road & " " " "		26.0 Cu.Yd.
From Prop. U.S.R. 25 Approach Slab Table		3.1 Cu.Yd.
Deduction for Roadside Park		- 18.0 Cu.Yds.
Deduct For Interchange Ramps		- 60.0 Cu.Yd.
Total =		902 Cu.Yd.
TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION)		902 Cu.Yd.

CALCULATIONS

CALCULATIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

33/466

AUGLAIZE COUNTY
AUG.-25-5.05

I-22 SUBBASE

≈ FEDERAL PARTICIPATION ≈

From typical section Nº 1 — 28,144.72 Lin.Ft.
28,144.72x2[½(7.5/12+9/12)x(13)+(7.5/12x12)+½(7.5/12+9/12÷10)+4½(9/12)]÷27 = 48,888.4 Cu.Yd. *

FROM typical section Nº2 — 3650.00 Lin.Ft.
3650x2[½(7.5/12+9/12)x(13)+(7.5/12x1333)]÷27 = 3790.9 Cu.Yd. *

From Typical Section H=3 — 6774.22 Lin.Ft.
6774.22x[(39.5+26.33)(9/2)]÷27 = 8258.3 Cu.Yd*

Add For Temporary Exist. U.S.R. 25 Connection — 1693.6 Cu.Yd.
" " Exist. U.S.R. 33 Overhead Approach — 874.4 Cu.Yd.
" " " " " & Prop. U.S.R. 25 Interchange — 3036.0 Cu.Yd.
" " Middle Pike Overhead Approach — 326.7 Cu.Yd.
" " Exist. S.R. 67 Overhead Approach — 1481.3 Cu.Yd.
" " " " " & Prop. U.S.R. 25 Interchange — 4071.0 Cu.Yd.
" " Cemetery Rd. Blank Pike Conn. & Blank Pike-S.R. 67 Conn. — 686.7 Cu.Yd.
" " Hengstler Road Overhead Approach — 349.2 Cu.Yd.
" " Seitz - Holden Road Connection — 862.2 Cu.Yd.
" " Buckland-Holden Overhead Approach — 342.0 Cu.Yd.
" " National Road " " — 1517.2 Cu.Yd.
" " " " & Prop. U.S.R. 25 Interchange — 3037.0 Cu.Yd.

From Prop. U.S.R. 25 Approach Table — 186.2 Cu.Yd.*
" " " " Approach Slab Table — 146.2 Cu.Yd.*

Note: Total of figure marked with an asterisk = 59,010 Cu.Yd. (to E-11 Water Table)

Deduct For Interchange Ramps — - 2602 Cu.Yd.*

Add For Guard Rail Section
5964.28x2x9/12 ÷27 — 343.0 Cu.Yd.*
TOTAL = 77,228.3 Cu.Yd.

TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION) — 77,229 Cu.Yd.

≈ FEDERAL NON - PARTICIPATION ≈

Add For Exist. U.S.R. 25 South of Wapakoneta — 44.0 Cu.Yd.
" " " " " & Prop. U.S.R. 33 Interchange — 2291.0 Cu.Yd.
" " Temporary Exist. U.S.R. 25 Connection — 2236.3 Cu.Yd.
TOTAL = 4571.3 Cu.Yd.

TOTAL TO GENERAL SUMMARY (FEDERAL NON-PARTICIPATION) — 4572 Cu.Yd.

ITEM I-18 STABILIZED CRUSHED AGGREGATE FOR SHOULDERS & APPROACHES

≈ FEDERAL PARTICIPATION ≈

From Typical Section Nº1 — 28,144.72 Lin.Ft.
" " " Nº2 — 3650.00 Lin.Ft.
TOTAL = 31,794.72 Lin.Ft.
31,794.72 x 2 [½(8/12+3/12)(3)A+½(8/12+3/12)(10)+½(6/12)(3)]÷27 = 13247.8 Cu.Yd. *

From Typical Section Nº3 — 6774.22 Lin.Ft.
6774.22x2[½(8/12+3/12)(3)+½(8/12)(3)]+6774.22[½(8/12+3/12)10+(8/12x4)+½(8/12+3/12)(6)]÷27=2948.1 Cu.Yd.*

Add For Temporary Exist. U.S.R. 25 Connection — 914.0 Cu.Yd.
" " Exist. U.S.R. 33 Overhead Approach — 219.5 Cu.Yd.
" " " " " & Prop. U.S.R. 25 Interchange — 415.0 Cu.Yd.
" " Middle Pike Overhead Approach — 47.5 Cu.Yd.
" " Exist. S.R. 67 " " — 233.2 Cu.Yd.
" " " " " & Prop. U.S.R. 25 Interchange — 491.2 Cu.Yd.
" " Cemetery Rd.-Blank Pike Conn. & Blank Pike - S.R. 67 Conn. — 14.8 Cu.Yd.
" " Hengstler Road Overhead Approach — 116.3 Cu.Yd.
" " Seitz - Holden Road Connection — 100.2 Cu.Yd.
" " Buckland - Holden Overhead Approach — 78.1 Cu.Yd.
" " National Road " " — 19.4 Cu.Yd.
" " " " & Prop. U.S.R. 25 Interchange — 407.8 Cu.Yd.

From Prop. U.S.R. 25 Approach Table — 346.0 Cu.Yd. *
" " " " " Slab Table — 35.2 Cu.Yd. *

Note: Total of figures marked with an asterisk = 15,564.5 Cu.Yd (to E-11 Water Table)

Deduct Interchange Ramps — - 1121. Cu.Yd *
Deduction for Roadside Park — - 186.0 Cu.Yds.
5964.28x2x3/12 ÷27 (Add for Guard Rail) — 110.4 Cu.Yd. *
TOTAL = 18,437.5 Cu.Yd.

TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION) — 18,438 Cu.Yd.

ITEM I-18 STABILIZED CRUSHED AGGREGATE FOR SHOULDERS & APPR. (cont'd)

≈ FEDERAL NON-PARTICIPATION ≈

Add For Exist. U.S.R. 25 South of Wapakoneta — 17.5 Cu.Yd.
" " " " " & Prop. U.S.R. 33 Interchange — 419.0 Cu.Yd.
" " Temporary Exist. U.S.R. 25 Connection — 620.3 Cu.Yd.
TOTAL = 1056.8 Cu.Yd.

TOTAL TO GENERAL SUMMARY (FEDERAL NON PARTICIPATION — 1057 Cu.Yd.

ITEM B-119 CRUSHED AGGREGATE BASE COURSE

≈ FEDERAL PARTICIPATION ≈

Add For Temporary Exist. U.S.R. 25 Connection — 188.0 Cu.Yd.
" " Exist. U.S.R. 33 Overhead Approach — 892.4 Cu.Yd.
" " " " " & Prop. U.S.R. 25 Interchange — 0.6 Cu.Yd.
" " Middle Pike Overhead Approach — 387.6 Cu.Yd.
" " Exist. S.R. 67 " " — 1409.3 Cu.Yd.
" " " " " & Prop. U.S.R. 25 Interchange — 1.8 Cu.Yd.
" " Cemetery Rd. Blank Pike Conn. & Blank Pike - S.R. 67 Conn. — 750.1 Cu.Yd.
" " Hengstler Road Overhead Approach — 408.4 Cu.Yd.
" " Seitz - Holden Road Connection — 1,023.2 Cu.Yd.
" " Buckland - Holden Overhead Approach — 402.3 Cu.Yd.
" " National Road " " — 25.2 Cu.Yd.

Note: Total of figures marked with an asterisk = 221.1 Cu.Yd. (to E-11 Table)

From Prop. U.S.R. 25 Approach Table — 221.1 Cu.Yd.*
TOTAL = 5710.0 Cu.Yd.

TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION) — 5710 Cu.Yd.

≈ FEDERAL NON - PARTICIPATION ≈

Add For Exist. U.S.R. 25 South of Wapakoneta — 40.9 Cu.Yd.
" " Temporary Exist. U.S.R. 25 Connection — 33.3 Cu.Yd.
TOTAL = 74.2 Cu.Yd.

TOTAL TO GENERAL SUMMARY (FEDERAL NON-PARTICIPATION) — 74 Cu.Yd.

ITEM E-1 COMPACTED SUBGRADE

≈ FEDERAL PARTICIPATION ≈

From Typical Section Nº1 — 28,144.72 Lin.Ft.
" " " Nº2 — 3650.00 Lin.Ft.
" " " Nº3 — 6774.22 Lin.Ft.
TOTAL = 38,568.94 Lin.Ft.
38,568.94 x 24x2 ÷9 = 205,701.1 Sq.Yd.

Add For Temporary Exist. U.S.R. 25 Connection — 6304.5 Sq.Yd.
" " Exist. U.S.R. 33 Overhead Approach — 3335.0 Sq.Yd.
" " " " " & Prop. U.S.R. 25 Interchange — 9500.0 Sq.Yd.
" " Middle Pike Overhead Approach — 2454.4 Sq.Yd.
" " Exist. S.R. 67 " " — 5830.8 Sq.Yd.
" " " " " & Prop. U.S.R. 25 Interchange — 13,399.0 Sq.Yd.
" " Cemetery Rd.-Blank Pike Conn. & Blank Pike - S.R. 67 Conn. — 5158.6 Sq.Yd.
" " Hengstler Road Overhead Approach — 2350.8 Sq.Yd.
" " Seitz - Holden Road Connection — 6960.7 Sq.Yd.
" " Buckland-Holden Overhead Approach — 2608.9 Sq.Yd.
" " National Road " " — 5876.6 Sq.Yd.
" " " " & Prop. U.S.R. 25 Interchange — 9933.0 Sq.Yd.

Note: Total of figures marked with an asterisk = 59,010 Cu.Yd. (to E-11 Water Table)

From Prop. U.S.R. 25 Approach Slab Table — 480.0 Sq.Yd.
TOTAL = 279,893.4 Sq.Yd.

TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION) — 279,894 Sq.Yd.

≈ FEDERAL NON-PARTICIPATION ≈

Add For Exist. U.S.R. 25 South of Wapakoneta — 140.9 Sq.Yd.
" " " " " & Prop. U.S.R. 33 Interchange — 7333.0 Sq.Yd.
" " Temporary Exist. U.S.R. 25 Connection — 9454.4 Sq.Yd.
TOTAL = 16928.3 Sq.Yd.

TOTAL TO GENERAL SUMMARY (FEDERAL NON-PARTICIPATION) — 16,928 Sq.Yd.

ITEM E-11 WATER

≈ FEDERAL PARTICIPATION ≈

From Prop. U.S.R. 25 Roadway Earthwork Table 626.3/3 Cu.Yds.
626.3/3 x 5 ÷ 1000 = 3131.6 M.Gals.
59,010 (I-22) + 15,566.5 (I-18) + 221.1 (B-119) = 74797.6 Cu.Yds.
74,797.6 x 5 ÷ 1000 = 374.0 M.Gals.

Add For Temporary Exist. U.S.R. 25 Connection — 201.9 M.Gals.
" " Exist. U.S.R. 33 Overhead Approach — 193.4 M.Gals.
" " " " " & Prop. U.S.R. 25 Interchange — 322.3 M.Gals.
" " Middle Pike Overhead Approach — 162.9 M.Gals.
" " Exist. S.R. 67 " " — 259.4 M.Gals.
" " " " " & Prop. U.S.R. 25 Interchange — 172.3 M.Gals.
" " Cemetery Rd. Blank Pike Conn. & Blank Pike - S.R. 67 Conn. — 62.6 M.Gals.
" " Hengstler Road Overhead Approach — 121.7 M.Gals.
" " Seitz - Holden Road Connection — 35.9 M.Gals.
" " Buckland - Holden Overhead Approach — 181.9 M.Gals.
" " National Road " " — 239.6 M.Gals.
" " " " & Prop. U.S.R. 25 Interchange — 328.8 M.Gals.
TOTAL = 5788.3 M.Gals.

TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION) — 5788 M.Gal.

≈ FEDERAL NON-PARTICIPATION ≈

Add For Exist. U.S.R. 25 South of Wapakoneta — 2.1 M.Gals.
" " " " " & Prop. U.S.R. 33 Interchange — 72.1 M.Gals.
" " Temporary Exist. U.S.R. 25 Connection — 106.5 M.Gals.
TOTAL = 180.7 M.Gals.

TOTAL TO GENERAL SUMMARY (FEDERAL NON-PARTICIPATION — 181 M.Gals.

ITEM T-32 ROAD MIX BITUMINOUS MATIERIAL

≈ FEDERAL PARTICIPATION

From Prop. U.S.R. 25 Approach Table — 1061.7 Gals.

Add For Cemetery Rd.-Blank Pike Conn. & Blank Pike-SR 67 Conn. — 3611.0 Gals.
" " Seitz - Holden Road Connection — 4701.4 Gals.
TOTAL = 9374.1 Gals.

TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION) — 9374. Gals.

ITEM T-32 SEAL COAT BITUMINOUS MATERIAL

≈ FEDERAL PARTICIPATION

From Prop. U.S.R. 25 Approach Table — 379.2 Gals.

Add For Cemetery Rd.-Blank Pike Conn. & Blank Pike S.R. 67 Conn. — 1289.6 Gals.
" " Seitz-Holden Road Connection — 1679.1 Gals.
3347.9 Gals.

TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION — 3348 Gals.

ITEM T-32 Nº6 AGGREGATE ROAD MIX

≈ FEDERAL PARTICIPATION ≈

From Prop. U.S.R. 25 Approach Table — 57.0 Cu.Yd.

Add For Cemetery Rd. Blank Pike Conn. & Blank Pike S.R. 67 Conn. — 193.4 Cu.Yd.
" " Seitz-Holden Road Connection — 251.9 Cu.Yd.
TOTAL = 502.3 Cu.Yd.

TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION — 503 Cu.Yd.

CALCULATIONS

CALCULATIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

34
466

AUGLAIZE COUNTY
AUG-25-5.05

ITEM T-32 Nº9 AGGREGATE CHOKE

~ FEDERAL PARTICIPATION ~

From Prop. U.S.R. 25 Approach Table	6.0 Cu.Yd.
Add Por Cemetery Rd. Blank Pike Conn & Blank Pike S.R. 67 Conn.	20.6 Cu.Yd.
" " Seitz-Holden Road Connection	26.8 Cu.Yd.
TOTAL=	53.4 Cu.Yd.
TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION)	54 Cu.Yd.

ITEM T-32 Nº6 AGGREGATE SEAL COAT

~ FEDERAL PARTICIPATION ~

From Prop. U.S.R. 25 Approach Table	12.0 Cu.Yd.
Add Por Cemetery Rd-Blank Pike Conn & Blank Pike S.R. 67 Conn.	41.3 Cu.Yd.
" " Seitz-Holden Road Connection	53.8 Cu.Yd.
TOTAL=	107.1 Cu.Yd.
TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION)	107. Cu.Yd.

ITEM I-21 PORTLAND CEMENT CONCRETE MEDIAN PAVEMENT TYPE 1

~ FEDERAL PARTICIPATION ~

Add Por Exist. S.R 67 & Prop. U.S.R. 25 Interchange	180.0 Sq.Yds.
" " National Road Overhead Approach	29.6 Sq.Yds.
" " & Prop U.S.R. 25 Interchange	80.0 Sq.Yds.
TOTAL=	289.6 Sq.Yds.
TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION)	290. Sq.Yds.

ITEM I-21 PORTLAND CEMENT CONCRETE MEDIAN PAVEMENT TYPE 1 as per plan

~ FEDERAL PARTICIPATION ~

Add Por Exist. U.S.R. 33 & Prop. U.S.R. 25 Interchange	44.0 Sq.Yds.
" " " S.R. 67 & Prop. U.S.R. 25 Interchange	122.0 Sq.Yds.
" " National Road & Prop. U.S.R. 25 Interchange	124.2 Sq.Yds.
TOTAL =	290.2 Sq.Yds.
TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION)	290 Sq.Yds.

~ FEDERAL NON-PARTICIPATION ~

Add Por Exist. U.S.R. 25 & Prop. U.S.R. 33 Interchange	16.0 Sq.Yds.
TOTAL TO GENERAL SUMMARY (FEDERAL NON-PARTICIPATION	16 Sq.Yds.

ITEM I-21 PORTLAND CEMENT CONCRETE MEDIAN PAVEMENT TYPE 2

Add Por Exist. S.R. 67 Overhead Approach	88.2 Sq.Yd.
TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION)	88. Sq.Yd.

ITEM I-23 PRECAST WHITE PORTLAND CEMENT CONCRETE TRAFFIC DIVIDERS

~ FEDERAL PARTICIPATION ~

National Road Interchange, Sht 311	3 Each
Add Por Exist S.R. 67 Overhead Approach	8 Each
National Road " "	30 Each
TOTAL=	41 Each
TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION)	41 Each

ITEM-I-12 STANDARD TYPE 2-A CONCRETE CURB

~ FEDERAL PARTICIPATION ~

Add Por Exist. U.S.R. 33 & Prop. U.S.R. 25 Interchange	462 Lin.Ft.
" " " U.S.R. 67 & " " " "	2487 Lin.Ft.
" " National Road Overhead Approach	1214 Lin.Ft.
" " " " & Prop. U.S.R. 25 Interchange	1,574 Lin.Ft.
TOTAL=	5,737 Lin.Ft.
TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION)	5737 Lin.Ft.

~ FEDERAL NON-PARTICIPATION ~

Add Por Exist. U.S.R. 25 & Prop. U.S.R. 33 Interchange	1647 Lin.Ft.
TOTAL TO GENERAL SUMMARY (FEDERAL NON-PARTICIPATION	1647 Lin.Ft.

ITEM I-13-4" STANDARD CONCRETE SIDEWALK

Add Por Buckland-Holden Overhead Approach	18 Sq.Ft.
TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION)	18 Sq.Ft.

ITEM E-9 REMOVAL OF TREES AND STUMPS

~ FEDERAL PARTICIPATION ~

Estimated Trees & Stumps to be removed and disposed of -

For Prop. U.S.R. 25	804
Add Por Temporary Exist. U.S.R. 25 Connection	5
" " Exist. S.R. 67 Overhead Approach	1
" " Cemetery Rd Blank Pike Conn & Blank Pike - S.R. 67 Conn.	58
" " Hengstler Road Overhead Approach	1
" " Seitz-Holden Road Connection	1
" " Buckland-Holden Overhead Approach	3
" " National Road " "	2
TOTAL=	875
TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION	Lump

~ FEDERAL NON-PARTICIPATION ~

Add Por Temporary Exist. U.S.R. 25 Connection	140
TOTAL TO GENERAL SUMMARY (FEDERAL NON-PARTICIPATION)	Lump

ITEM L-9 COMMERCIAL FERTILIZER (10-6-4)

~ FEDERAL PARTICIPATION ~

From Prop. U.S.R. 25 Roadside Improvement Table	566,685 Sq.Yds.
" " " " Drainage Table (Sodding)	5,940 Sq.Yds.
TOTAL =	572,625 Sq.Yds
572,625 x 9/1000 x 20/2000 =	51.54 Tons

Add Por Temporary Exist. U.S.R. 25 Connection	4.28 Tons
" " Exist. U.S.R. 33 Overhead Approach	1.43 Tons
" " Exist " " & Prop. U.S.R. 25 Interchange	4.30 Tons
" " Middle Pike Overhead Approach	1.47 Tons
" " Exist. S.R. 67 " "	1.59 Tons
" " " " " & Prop. U.S.R. 25 Interchange	5.52 Tons
" " Cemetery Rd-Blank Pike Connection & Blank Pike-S.R. 67 Conn.	1.82 Tons
" " Hengstler Road Overhead Approach	1.48 Tons
" " Seitz-Holden Road Connection	0.98 Tons
" " Buckland-Holden Overhead Approach	1.57 Tons
" " National Road " "	1.37 Tons
" " " " & Prop. U.S.R. 25 Interchange	4.51 Tons
TOTAL =	81.84 Tons
TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION)	81.86 Tons

~ FEDERAL NON PARTICIPATION ~

Add Por Exist. U.S.R. 25 South of Wapakoneta	0.12 Tons
" " " " " & Prop. U.S.R. 33 Interchange	2.41 Tons
" " Temporary Exist. U.S.R. 25 Connection	3.11 Tons
TOTAL =	5.64 Tons
TOTAL TO GENERAL SUMMARY (FEDERAL NON-PARTICIPATION)	5.64 Tons

ITEM I-9 STONE UNDERDRAINS Nº 2

~ FEDERAL PARTICIPATION ~

Add Por Exist. U.S.R. 33 Overhead Approach	570 Lin. Ft.
" " Middle Pike " "	668 Lin. Ft.
" " Exist. S.R. 67 " "	630 Lin. Ft.
" " Cemetery Rd-Blank Pike Conn & Blank Pike-S.R. 67 Conn.	490 Lin. Ft.
" " Hengstler Road Overhead Approach	614 Lin. Ft.
" " Seitz-Holden Road Connection	1080 Lin. Ft.
" " Buckland-Holden Overhead Approach	585 Lin. Ft.
TOTAL =	4577 Lin. Ft.
TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION)	4577 Lin. Ft.

~ FEDERAL NON-PARTICIPATION ~

Add Por Exist. U.S.R. 25 South of Wapakoneta	58 Lin. Ft.
TOTAL TO GENERAL SUMMARY (FEDERAL - NON-PARTICIPATION	58 Lin. Ft.

E-8 REMOVAL AND DISPOSAL of EXISTING CURB AND GUTTER

Add Por Exist. U.S.R. 25 South of Wapakoneta.	208 Lin. Ft.
TOTAL TO GENERAL SUMMARY (FEDERAL NON-PARTICIPATION	208 Lin. Ft.

E-8 REMOVAL AND DISPOSAL OF EXISTING SIDEWALK

Add Por Buckland-Holden Overhead Approach	19 Sq. Ft.
TOTAL TO GENERAL SUMMARY (FEDERAL PARTICIPATION)	19 Sq. Ft.

GENERAL SUMMARY

Federal Participation Roadside Parks	ITEM	QUANTITY: Non-Federal Participation Prop. Ful. US.R.33	QUANTITY: Non-Federal Part. Ex. U.S.R.25 al National Rd.	QUANTITY: Non-Federal Participation Roadside Parks	QUANTITY: Federal Participation Total Code Type 7221	TOTAL	UNIT	DESCRIPTION
								ROADWAY
36387	E-1	9808	1686		618322 ✓	629,816	Cu. Yds.	Roadway Excavation, as per plan
13897	E-1	16.928	2408		293791 ✓	313,127	Sq. Yds.	Compacted Subgrade
	E-4	24.959			593556	618,515	Cu. Yds.	Borrow
	E-8		37			37	Sq. Yds.	Removal & Disposal of Existing Pavement.
	E-8				19	19	Sq. Ft.	Removal & Disposal of Existing Sidewalk.
	E-8	208	46			254	Lin. Ft.	Removal & Disposal of Existing Curb & Gutter.
Lump	E-9	Lump	Lump		Lump ✓	LUMP	LUMP	Removal of Trees & Stumps.
3	E-11	181	11		5791	5983	M. Gals.	Water.
5527	I-13				5545 ✓	5545	Sq. Ft.	4" Concrete Sidewalks.
	I-16	100			19364.28	19464.28	Lin. Ft.	Guard Rail - Steel Beam Type (Deep)
	I-18	1057	137		18438	19,632	Cu. Yds	Stabilized Crushed Aggregate Shoulders & Approaches.
	I-15				75	75	Lin. Ft.	Guard Rail Removed & Stored
	L-9	62.629	5152		897546	965,327	Sq. Yds.	Seeding & Protecting
	L-10				12013	12,013	Sq. Yds.	Sodding
270 ✓	L-13				270	270	Each	Cotoneaster divaricata - Spreading Cotoneaster 24" to 30" B&B 18"
	L-13			16		16	Each	Euonymous F. vegetus - Bigleaf Wintercreeper Euonymus 18"-24" B&B 11"
	L-13			8		8	Each	Ilex glabra - Inkberry 24"- 30" B&B 13"
	L-13			4		4	Each	Euonymous o. Compactus - Dwarf Winged Euonymus 3'-4' B&B 13"
	L-13			24		24	Each	Ligustrum o. regelianum - Regals Border Privet 2½'- 3'
	L-13			154		154	Each	Rhamnus Catharfica - Common Buckthorn 4'-5'
	L-9	5.64	0.46	5.40	81.86	93.36	Tons	Commerical Fertilizer (10-6-4)
16	L-14				16	16	Each	Gleditsia t. inermis - Thornless Honeylocust 2"- 2½" B&B 24"
	L-14			3		3	Each	Crataegus Crusgalli - Cockspur Hawthorn 6'-8' B&B 18"
	L-14			5		5	Each	Crataegus o. pauli - Pauls Scarlet Hawthorn 6'-8' B&B 18"
	L-14			3		3	Each	Koelreuteria paniculata - Panicled Goldenraintee 6'-8' B&B 18"
	L-14			8		8	Each	Malus atrosanguinea - Carmine Crabapple 5'-6' B&B 16"
	L-14			18		18	Each	Malus floribunda - Japanese Flowering Crabapple 5'-6' B&B 16"
	L-14			15		15	Each	Malus p. eleyi - Eley Flowering Crabapple 5'-6' B&B 16"
	L-14			8		8	Each	Malus spectabilis - Chinese Flowering Crabapple 5'-6'- B&B 16"
	L-14			6		6	Each	Prunus c. pissardi - Pissard Plum 5'-6' B&B 16"
	SPECIAL			10		10	Each	Picnic Grill & Serving Table.
8	SPECIAL			12	8	20	Each	Park Table.
	SPECIAL			2		2	Each	Shelter House.
	SPECIAL			8		8	Each	Shelter House Table.
2	SPECIAL				2	2	Each	Privy and Storage Shed
2	SPECIAL				2	2	Each	Well Shelter.
400	SPECIAL				400	400	Lin. Ft.	Drilled Wells
2	I-8				2	2	Each	Catch Basin, Type "A"
	SPECIAL			2		2	Each	Bulletin Board.
4	SPECIAL				4	4	Each	Pylon and Sign Standard.
30	I-13				30	30	Lin. Ft.	Concrete Steps as per plan
	SS-18			3137		3137	Lin. Ft.	Park Fence.
	SS-18	9771			82305	92,076	Lin. Ft.	Fence, Type "A" Modified as per plan
	SPECIAL				5	5	Each	Bridge Type Overhead Sign Assembly Type "A"
								DRAINAGE
8	E-2	95	4		6103	6202	Cu. Yds.	Excavation for Structures.
	E-3				7575	7575	Cu. Yds.	Channel Excavation, as per plan
	E-12	1592	559		16821	18,972	Lin. Ft.	Pipe Removed 15" & Under.
	E-12				1733	1733	Lin. Ft.	Pipe Removed Over 15".
	E-12		61		139	200	Lin. Ft.	Pipe Removed for Storage 15" & Under.
	E-12				114	114	Lin. Ft.	Pipe Removed for Storage Over 15".
	I-2				300	300	Lin Ft.	18" Class "A" Storm Sewer Under Pavement or Approaches, Sec M-106.6(d)
	I-1	28	92		422	542	Lin. Ft.	12" Pipe for Driveways Plain Corrugated Metal Pipe, Sec. M-6.4(a).
	I-1				44	44	Lin. Ft.	15" Pipe for Driveways Plain Corrugated Metal Pipe, Sec. M-6.4(a).
	I-1				90	90	Lin. Ft.	18" Pipe for Driveways Plain Corrugated Metal Pipe, Sec. M-6.4(a).
	I-1	36			72	108	Lin. Ft.	24" Pipe for Driveways Plain Corrugated Metal Pipe, Sec. M-6.4(a).
60	I-2				60	60	Lin. Ft.	15" Storm Sewers, Class "A"
	I-2				1354	1354	Lin. Ft.	8" Storm Sewers Under Pavement & Approaches, Class "A" Sec. M-6.5(b) or Sec. M-6.8(b).
10	I-2	74			850	924	Lin. Ft.	12" Storm Sewers Under Pavement or Approaches, Class "A" Sec. M-6.5(b) or Sec. M-6.8(b).
198	I-2				1030	1030	Lin. Ft.	15" Storm Sewers Under Pavement or Approaches, Class "A" Sec. M-6.5(b) or Sec. M-6.8(b).
128	I-2				662	662	Lin. Ft.	18" Storm Sewers Under Pavement or Approaches, Class "A" Sec. M-6.5(b) or Sec. M-6.8(b).
	I-2				2208	2208	Lin. Ft.	24" Storm Sewers Under Pavement or Approaches, Class "A" Sec. M-6.6(a) or Sec. M-6.8(b).
	I-2				200	200	Lin. Ft.	12" Storm Sewers Under Pavement or Approaches, Class "A" Sec. M-6.4(c).
284	I-2				334	334	Lin. Ft.	12" Storm Sewers Under Pavement or Approaches, Class "B"
114	I-2				114	114	Lin. Ft.	12" Storm Sewers, Class "A".
	I-3	2474	130		3389	5993	Lin. Ft.	8" Roadway Drainage.
	I-3				1228	1228	Lin. Ft.	10" Roadway Drainage.
298	I-3	8	8		864	880	Lin. Ft.	12" Roadway Drainage.
	I-3				1232	1232	Lin. Ft.	15" Roadway Drainage.
	I-3				860	860	Lin. Ft.	18" Roadway Drainage.
	I-3				1402	1402	Lin. Ft.	24" Roadway Drainage.
	I-2				80	80	Lin. Ft.	12" Storm Sewer Under Railroad as per plan, Sec. M-106.6(d)
	I-3		184		742	926	Lin. Ft.	8" Roadway Drainage Under Pavement or Approaches, Sec. M-6.5(b) or Sec. M-6.8(b).
	I-3				495	495	Lin Ft.	8" Roadway Drainage Under Pavement or Approaches, Sec M-6.6(b)
	I-3		56		207	263	Lin. Ft.	12" Roadway Drainage under Pavement or Approaches, Sec. M-6.5(b) or Sec. M-6.8(b).
	I-3	254				254	Lin. Ft.	15" Roadway Drainage under Pavement or Approaches, Sec. M-6.5(b) or Sec. M-6.8(b).
	I-3	25	25		150	200	Lin. Ft.	6" Roadway Drainage
	I-3				22	22	Lin. Ft.	24" Roadway Drainage Under Pavement or Approaches, Sec. M-6.6(a) or Sec. M-6.8(b).
	I-3	10	10		482	502	Lin. Ft.	8" Pipe Outlets for Roadway Drainage, Sec M-6.4(c)
	I-3				10	10	Lin. Ft.	10" Pipe Outlets for Roadway Drainage, Sec M-6.4(c)
270	I-2				270	270	Lin. Ft.	4" Class "A" Storm Sewers under Pavt. or Approaches Sec. M-6.8(a)
	I-2	25	25		150	200	Lin. Ft.	6" Class "A" Storm Sewers
	I-3				10	10	Lin. Ft.	24" Pipe Outlets for Roadway Drainage, Sec. M-6.4(c)
	I-5				1	1	Each	6" Pipe Special for Underdrains, Sec M-6.4(h)
2048	I-4	1588	2020		17955	21,563	Lin. Ft.	6" Underdrains
	I-4				146	146	Lin. Ft.	6" Underdrain Helical Perforated Corrugated Metal Pipe, Sec. M-6.4(h).
	I-4	30			326	356	Lin. Ft.	8" Pipe Outlet for Underdrains, Sec M-6.4(a)
	I-5				2	2	Each	12" Pipe Specials for Roadway Drainage.
	I-5				23	23	Each	8" Pipe Specials for Roadway Drainage.
	I-5				25	25	Each	10" Pipe Specials for Roadway Drainage.
	I-5	2				2	Each	15" Pipe Specials for Roadway Drainage.
	I-5	1			1	2	Each	18" Pipe Specials for Roadway Drainage.
	I-5				9	9	Each	24" Pipe Specials for Roadway Drainage.
	I-5				1	1	Each	12" Pipe Specials for Storm Sewers Under Pavement or Approaches, Class "A", Sec M-6.5(b) or Sec M-6.8(b)
	I-5				8	8	Each	15" Pipe Specials for Roadway Culverts, Sec. M-6.4(d)
5	I-5	1	7		28	36	Each	6" Pipe Specials for Underdrains
	I-8				1	1	Each	Standard Nº 1 Side Ditch Inlet Modified as per plan
4	I-8	5	5		65	75	Each	Standard Nº 1-2 A Catch Basins
	I-8				13	13	Each	Standard Nº 1-3 Catch Basins
	I-8				5	5	Each	Standard Nº 1-4 Catch Basins
	I-8				1	1	Each	Standard Nº 2-3 Catch Basin.
	I-8				1	1	Each	Standard Nº 2-3 Catch Basin Modified as per plan.
	I-8				1	1	Each	Standard Nº 2-2A Catch Basin Modified as per plan.
	I-8				1	1	Each	Standard Nº 1-3 Catch Basin Modified as per plan.
	I-8				2	2	Each	Standard Nº 1-4 Catch Basins, Modified as per plan.
	I-8				1	1	Each	Standard Nº 2-4 Catch Basin Modified as per plan
8	I-8				10	10	Each	Standard Nº 3-A Catch Basins
	I-9	58			4577	4635	Lin. Ft.	Stone Underdrains - Nº 2 as per plan
	I-10				796	796	Cu. Yds.	Dumped Rock Fill as per plan
	I-14				285	285	Lin. Ft.	Standard Paved Gutter, Type 1.
	I-16				5	5	Each	Inlets Abandoned.
	I-16	1	5		6	12	Each	Catch Basins Abandoned.
	I-16				2	2	Each	Manholes Abandoned.
								CONTINUED ON NEXT SHEET

GENERAL SUMMARY

AUGLAIZE COUNTY
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GENERAL SUMMARY

Federal Participation Roadside Parks	ITEM	QUANTITY: Non-Federal Participation Prop. Fut. U.S.R.33	QUANTITY: Non-Federal Part. Ex. U.S.R.25 at National Rd.	QUANTITY: Non-Federal Participation Roadside Parks	QUANTITY: Federal Participation Total Code Type 722	QUANTITY: TOTAL	UNIT	DESCRIPTION
								DRAINAGE CONTINUED
	I-17				1640	1640	Sq. Ft.	Galvanized Metal Cellular Retaining Wall or Precast Reinforced Concrete Cellular Retaining Wall
	S-1	7.1	0.9		147.1	155.1	Cu. Yds.	Concrete for Structures, Class "E".
	S-4				251	251	lbs.	Reinforcing Steel.
	S-22	Lump			Lump	LUMP	LUMP	Removal of Portions of Existing Structures.
	S-24				Lump	LUMP	LUMP	Removal of Existing Structures.
10	S-27				468	468	Lin. Ft.	36" Pipe for Roadway Culverts.
	S-27				840	840	Lin. Ft.	42" Pipe for Roadway Culverts.
	S-27				508	508	Lin. Ft.	48" Pipe for Roadway Culverts.
	S-27				574	574	Lin. Ft.	54" Pipe for Roadway Culverts.
	S-27				48	48	Lin. Ft.	66" Pipe for Roadway Culverts.
	S-27		32			32	Lin. Ft.	12" Pipe for Roadway Culverts, Sect. M-6.6(b) or Sec. M-6.8(b).
10	S-27				2675	2675	Lin. Ft.	15" Pipe for Roadway Culverts, Sec. M-6.6(b) or Sec. M-6.8(b).
	S-27	56			250	306	Lin. Ft.	18" Pipe for Roadway Culverts, Sec. M-6.6(b) or Sec. M-6.8(b).
	S-27	68			824	892	Lin. Ft.	21" Pipe for Roadway Culverts, Sec. M-6.6(b) or Sec. M-6.8(b).
	S-27	160			796	956	Lin. Ft.	24" Pipe for Roadway Culverts, Sec. M-6.6(b) or Sec. M-6.8(b).
	S-27				858	858	Lin. Ft.	27" Pipe for Roadway Culverts, Sec. M-6.6(b) or Sec. M-6.8(b).
24	S-27	100			1576	1676	Lin. Ft.	30" Pipe for Roadway Culverts, Sec. M-6.6(b) or Sec. M-6.8(b).
	S-27				40	40	Lin Ft.	24" Pipe for Roadway Culverts Under Railroad as per plan, Sec M-106.6(d)
	S-27				96	96	Lin Ft.	50"×31" Paved Bituminous Coated Corrugated Metal Arch with Integral Base Sec M-6.4(d)(i), 8 Gage or 45"×29" Elliptical Reinforced Concrete Culvert Pipe, Sec. M-206.6(b), for Roadway Culverts
	S-27	104			133	237	Lin. Ft.	15" Pipe for Roadway Culverts, Sec. M-6.4(d).
	S-27				58	58	Lin. Ft.	18" Pipe for Roadway Culverts, Sec. M-6.4(d). , 14 Gage
	S-27				60	60	Lin. Ft.	21" Pipe for Roadway Culverts, Sec. M-6.4(d). , 14 Gage
	S-27	60				60	Lin. Ft.	24" Pipe for Roadway Culverts, Sec. M-6.4(d). , 12 Gage
	S-27				30	30	Lin. Ft.	30" Pipe for Roadway Culverts, Sec. M-6.4(d).
	S-27	20				20	Lin. Ft.	36" Pipe for Roadway Culverts, Sec. M-6.4(d). , 10 Gage
	S-27				248	248	Lin. Ft.	96" Pipe for Roadway Culvert, Sec. M-6.6(b)
	S-27				396	396	Lin. Ft.	43"×27" Paved Bituminous Coated Corrugated Metal Arch with Integal Base Sec. M-6.4(d)(i), 10 Gage or 38"×24" Elliptical Reinforced Concrete Culvert Pipe Sec. M-206.6(b), for Roadway Culverts
	S-28				352	352	Lin. Ft.	15'-10"× 9'-10" Sectional Corrugated Metal Structure, Gage (5-3). Sec M-6.4(g)
	SPECIAL	5	8		32	45	Each	Expansion Anchor Bolts, as per plan
	SPECIAL	2	1		1	4	Each	Wells Abandoned.
	SPECIAL	1			1	2	Each	Cisterns Abandoned.
								PAVEMENT
	B-33				112703	112,703	Sq. Yd.	3" Bituminous Macadam Base Course.
	B-35	58	16.7		905	1130	Cu. Yds.	Asphaltic Concrete Leveling Course (70-80).
	B-35	15	182		1031	1228	Cu. Yds.	Asphaltic Concrete Base Course (70-80), as per plan
	B-119	74	726		5710	6510	Cu. Yds.	Crushed Aggregate Base Course.
	I-7				587	587	Sq. Yds	Reinforced Concrete Approach Slabs. (T= 11½").
	I-7				267	267	Sq. Yds.	Reinforced Concrete Approach Slabs (T= 13").
	I-7				211	211	Sq. Yds.	Reinforced Concrete Approach Slabs as per plan (T= 11½").
	I-7				245	245	Sq. Yds.	Reinforced Concrete Approach Slabs as per plan (T= 13")
	I-12		480			480	Lin. Ft.	Standard Combination Curb and Gutter, Type 2.
4529	I-12	1647	148		10266	12061	Lin. Ft.	Standard Concrete Curb, Type 2-A.
	I-21				290	290	Sq. Yds.	Standard Portland Cement Concrete Median Pavement Type 1.
26	I-21	16			316	332	Sq. Yds.	Standard Portland Cement Concrete Median Pavement, Type 1 as per plan.
	I-21				88	88	Sq. Yds	Standard Portland Cement Concrete Median Pavement, Type 2.
	I-23				41	41	Each	Precast White Portland Cement Concrete Traffic Dividers.
2366	I-22	457.2	622		79595	84,789	Cu. Yds.	Subbase, as per Plan.
	T-30	187	1092		12586	13,865	Gals.	Bituminous Prime Coat Sec. M-5.7, RT-2 or RT-3; or Sec. M-5.3 MC-0 or 1., Sec. M-5.2, RC-1 or 2
	T-31				28175	28175.	Gals.	Bituminous Surface Treatment, Bituminous Material, as per plan.
	T-31				902	902.	Cu. Yds.	Bituminous Surface Treatment, Aggregate №6.
	T-32				9374	9374	Gals.	Road Mix Bituminous Material; Sec. M-5.7; RT-8 or 9, Sec M-5.3 MC-4 or 5, Sec. M-5.12 CBAE 2 or 3 or Sec. M-5.2 RC-2 or 3
	T-32				3348	3348	Gals.	Seal Coat Bituminous Material, Sec. M-5.7; RT-9 or 10, Sec. M-5.3 MC-4 or 5, Sec. M-5.2; RC-3 or 4, Sec. M-5.5: RS-2, or Sec. M-5.12 CBAE 2 or 3
	T-32				503	503	Cu. Yds.	Aggregate for Road Mix, №6.
	T-32				54	54	Cu. Yds.	Aggregate for Choke №9.
	T-32				107	107	Cu. Yds.	Aggregate for Seal Coat, №6
	T-35	63	197		812	1072	Cu. Yds.	Asphaltic Concrete Surface Course, Type "A" (70-80).
13897	T-71	16,557	405		263600	280,562	Sq. Yds.	9" Reinforced Portland Cement Concrete Pavement.
	SPECIAL	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	Construction Layout Stakes.
								ROADWAY CONTINUED
	S-15				LUMP	LUMP	LUMP	Temporary Run-around Road
	S-15	10	1620		854	2484	Cu. Yds.	Furnishing and Placing Aggregate for Traffic Bound Surface Course
	S-15	0.5	32.5		17.0	50.	Tons.	Furnishing and Applying Calcium Chloride or Calcium Magnesium Chloride
	S-15				Lump	Lump	Lump	Temporary Run-around Road using Class "A" Pavement.
	SPECIAL							Maintaining Traffic Including Aggregate Maintenance Stone
	T-35	5	10		50	65	Cu. Yds	Asphaltic Concrete Surface Course or an Approved Bituminous Premixed Surface Course for Maintaining Traffic
	L-17			60		60	Each	Pruning Existing Roadside Park Trees (6").
	L-17			100		100	Each	Pruning Existing Roadside Park Trees (12").
	L-17			20		20	Each	Pruning Existing Roadside Park Trees (20").
	L-17			10		10	Each	Pruning Existing Roadside Park Trees (30").
	L-17			5		5	Each	Pruning Existing Roadside Park Trees (36").
	L-9			60,000		60,000	Sq. Yds.	Roadside Park Seeding & Protecting, as per plan.
	I-112	395		357	357	752	Lin Ft.	Standard Type I Asphaltic Concrete Curb
	I-15	362.5		275	275	637.5	Lin Ft.	Temporary Guard Rail, As Per Plan

GENERAL SUMMARY

STRUCTURES OVER 20 FT SPAN

Bridge №. AUG-25-0517 for Estimated Quantities See Sheet №. 379
Bridge №. AUG-25-0546 for Estimated Quantities See Sheet №. 385
Bridge №. AUG-25-0608 for Estimated Quantities See Sheet №. 392
Bridge №. AUG-25-0721 for Estimated Quantities See Sheet №. 397
Bridge №. AUG-25-0756 for Estimated Quantities See Sheet №. 413
Bridge №. AUG-25-0877 for Estimated Quantities See Sheet №. 417
Bridge №. AUG-25-1047 for Estimated Quantities See Sheet №. 423
Bridge №. AUG-25-1234 for Estimated Quantities See Sheet №. 429

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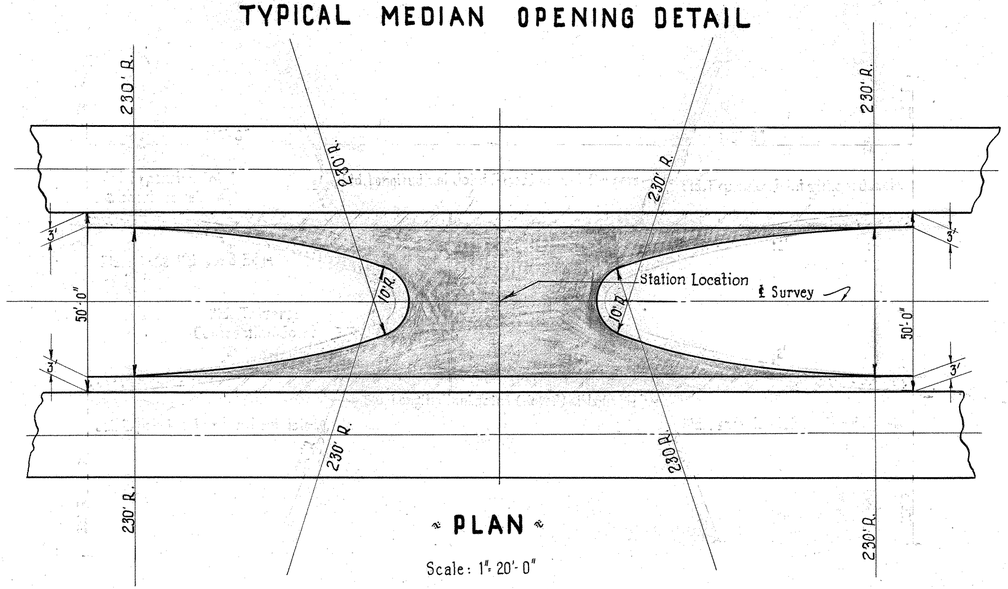
TYPICAL MEDIAN OPENING DETAIL

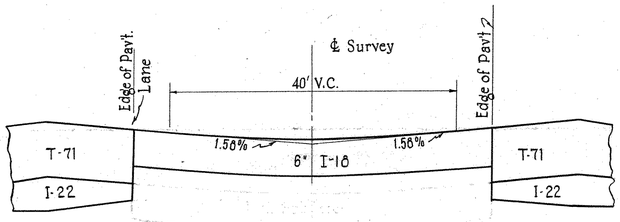


℄ PLAN ℄

Scale: 1" = 20'-0"

ESTIMATED QUANTITIES PER MEDIAN OPENING

ITEM I-18	Stabilized Crushed Aggregate for Shoulders & Approaches.	68 Cu.Yds.

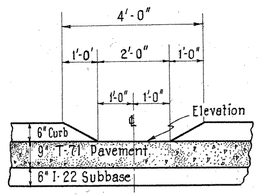


Profile with Median Openings on superelevation section shall be adjusted to meet pavement slopes.

℄ PROFILE ℄
Vertical Scale: 1" = 1'-0"
Horizontal Scale: 1" = 10'-0"

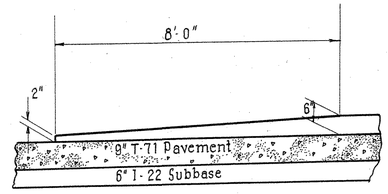
STATION LOCATIONS

Station	377+00
Station	454+00
Station	559+00
Station	654+00



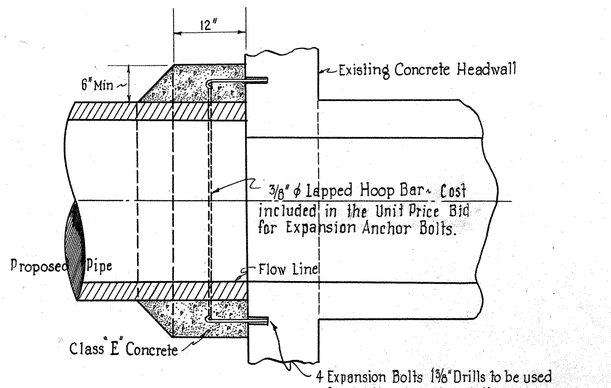
ELEVATION
Scale ½" = 1'-0"

TYPICAL CURB OPENING DETAIL FOR DRAINAGE OVER BERM



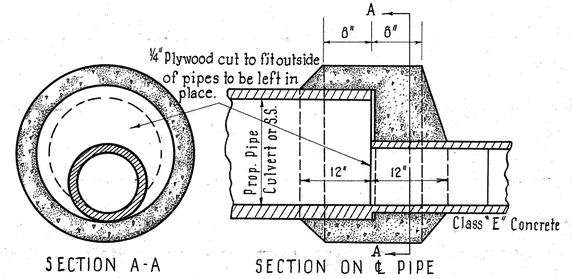
ELEVATION
Scale ½" = 1'-0"

DETAIL OF CURB END TRANSITION



SECTION
Scale: 1" = 1'-0"

TYPICAL DETAIL OF CONCRETE COLLAR TYPE "A" FOR CONNECTING PIPE TO EXISTING HEADWALLS



SECTION A-A — SECTION ON ℄ PIPE

CONCRETE COLLAR FOR PIPE CONNECTION TYPE "B"

Scale: 1" = 1'-0"

~ SYMBOLS ~

- T-31 Bituminous Seal Coat consisting of 0.25 Gal/Sq.Yd. of Bit. Mat'l and 0.006 Cu.Yd. of No 6 Aggregate per Sq.Yd. on 3" of B-33 Bituminous Macadam Base Course, Type "A" or "B" on 1-18 Stabilized Crushed Aggregate for Shoulders and Approaches.
- Feather T-35 Asphaltic Concrete Surface Course, Type "A", on B-35 Asphaltic Concrete Leveling Course on Existing Bituminous Pavement to zero.
- 6" of 1-18 Stabilized Crushed Aggregate for Shoulders and Approaches.
- 2" of T-35 Asphaltic Concrete Surface Course, Type "A" on T-30 Bituminous Prime Coat @ 0.35 gal/sq.yd on 5" of 1-18 Stabilized Crushed Aggregate for Shoulders and Approaches.
- 7" of 1-18 Stabilized Crushed Aggregate for Shoulders and Approaches.
- 1¼" of T-35 Asphaltic Concrete Surface Course, Type "A" on 1½" of B-35 Asphaltic Concrete Leveling Course on T-30 Bituminous Prime Coat @ 0.35 gal/sq.yd. on 5" of B-119 Crushed Aggregate Base Course on 4" of 1-22 Subbase.
- 1¼" T-35 Asphaltic Concrete Surface Course, Type "A" on 2" B-35 Asphaltic Concrete Leveling Course on T-30 Bituminous Prime Coat on 5" B-119 Crushed Aggregate Base Course on 4" 1-22 Subbase.
- 1¼" of T-35 Asphaltic Concrete Surface Course Type "A" on 1¼" of B-35 Asphaltic Concrete Leveling Course on 3" of B-35 Asphaltic Concrete Base Course on T-30 Bituminous Prime Coat @ 0.35 gal/sq.yd. on 6" B-119 Crushed Aggregate Base Course on 6" of 1-22 Subbase.
- 1¼" T-35 on Asphaltic Concrete Surface Course, Type "A" on 1½" of B-35 Asphaltic Concrete Leveling Course on T-30 Bituminous Prime Coat @ 0.35 gal/sq.yd. on 0" to 5" of B-119 Crushed Aggregate Base Course on 4" of 1-22 Subbase.
- T-32 as per Typical Section on Seitz-Holden road connection.
- 1¼" of T-35 Asphaltic Concrete Surface Course Type "A" on 2" of B-35 Asphaltic Concrete Leveling Course on T-30 Bituminous Prime Coat @ 0.35 gal/sq.yd on 0" to 5" of B-119 Crushed Aggregate Base Course on 0" to 4" 1-22 Subbase.
- 1¼" of T-35 Asphaltic Concrete Surface Course, Type "A" on 1¼" of B-35 Asphaltic Concrete Leveling Course on 0" to 3" of B-35 Asphaltic Concrete Base Course on T-30 Bituminous Prime Coat on 0" to 6" B-119 Crushed Aggregate Base Course on 0" to 6" Subbase.
- 9" T-71 Reinforced Portland Cement Concrete Pavement on 6" of 1-22 Subbase unless otherwise shown on Typical Sections.
- Removal of Existing Concrete Pavement.

SPECIAL DETAILS & SYMBOLS

APPROACH SLAB DETAILS

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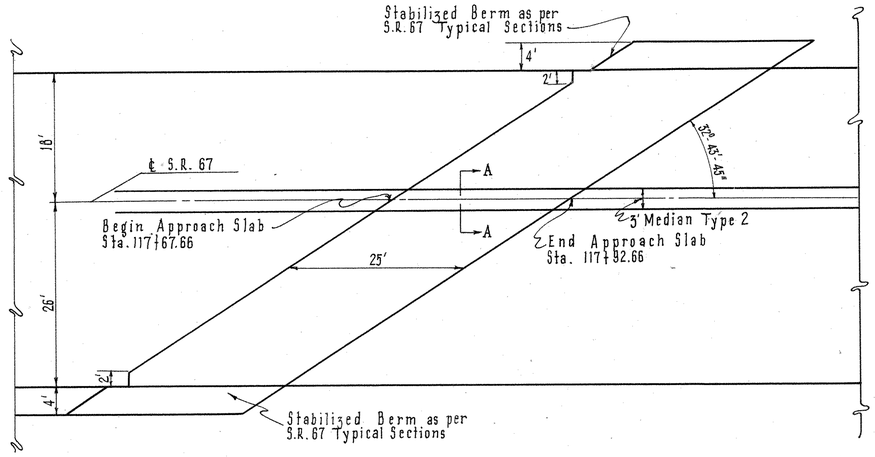
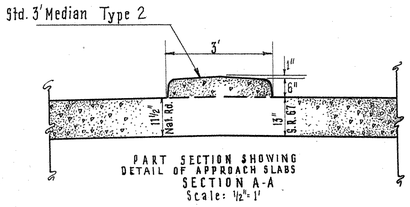


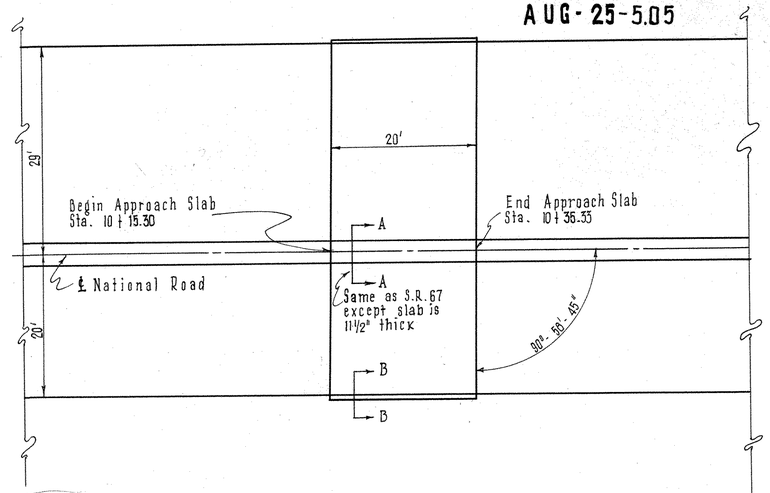
NOTE: Concrete Medians are to be poured monolithically with the approach slabs, and payment for this item shall be included in the contract unit price bid for Item 1-17 ~ Reinforced Concrete Approach Slabs.
Reinforcing steel sizes, spacing and slab dimensions to be as Std. Drawing A-S-1-54



PART SECTION SHOWING
DETAIL OF APPROACH SLABS
SECTION A-A
Scale: ½"= 1'

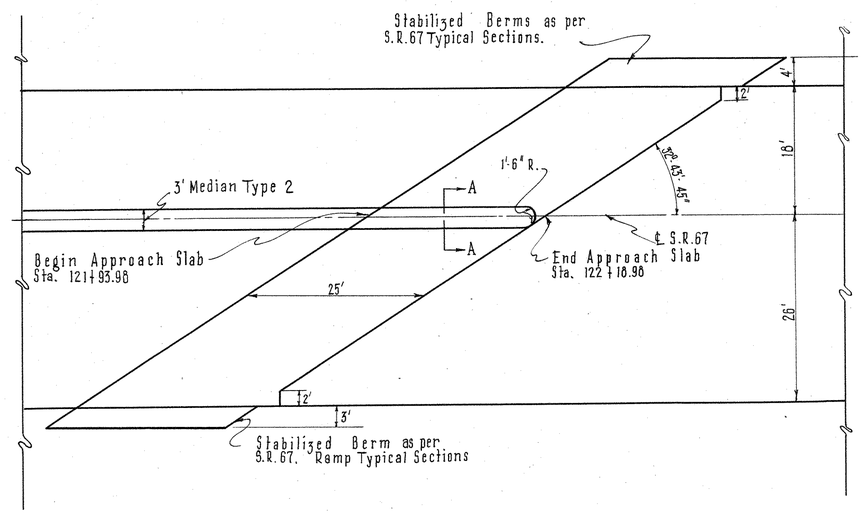
ESTIMATED QUANTITIES

ITEM	1-7	Reinforced Concrete Approach Slabs as per plan	122.2 Sq. Yds.
ITEM	1-18	Stabilized Crushed Aggregate Shoulders & Approaches	3.7 Cu. Yds.
ITEM	1-22	Subbase	26.5 Cu. Yds.
ITEM	E-1	Compacted Subgrade	122.2 Sq. Yds.



ESTIMATED QUANTITIES

ITEM	1-7	Reinforced Concrete Approach slab as per plan	111.1 Sq. Yds.
ITEM	1-22	Subbase 6"	31.1 Cu. Yds.
ITEM	E-1	Compacted Subgrade	111.1 Sq. Yds.

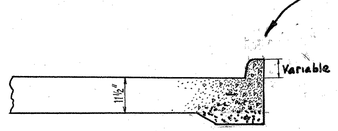


ESTIMATED QUANTITIES

ITEM	1-7	Reinforced Concrete Approach Slab as per plan	122.2 Sq. Yds.
ITEM	1-18	Stabilized Crushed Aggregate Shoulders & Approaches	2.9 Cu. Yds.
ITEM	1-22	Subbase ~ 8"	28.5 Cu. Yds.
ITEM	B-33	3" Bituminous Macadam Base Course.	8.3 Sq. Yds.
ITEM	T-31	Bituminous Seal Coat.	2.1 Gals.
ITEM	T-31	№ 6 Aggregate for Seal Coat	.1 Cu.Yds.
ITEM	E-1	Compacted Subgrade	122.2 Sq. Yds.

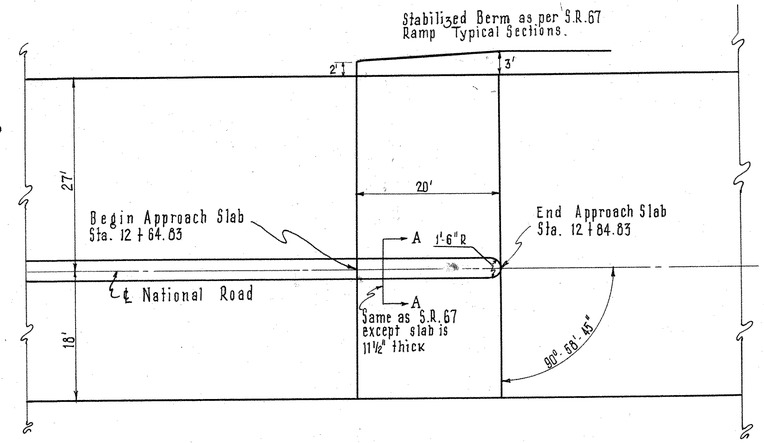
APPROACH SLABS FOR BR. NO. AUG 25 0721
Scale: 1"= 10'

Note: Curb height shall be uniformly transitioned from 6" to 10" within the limits of the approach slab.



SECTION B-B SHOWING CURB
CAST MONOLITHIC WITH APPROACH SLAB
SCALE: 1½"= 1'

Design information same as above Note except addition of Curb as per Sect. B-B.



ESTIMATED QUANTITIES

ITEM -	1-7	Reinforced Concrete Approach slab as per plan	100 Sq. Yds.
ITEM -	1-18	Stabilized Crushed Aggregate Shoulders & Approaches	1 Cu. Yds.
ITEM -	1-22	Subbase 6"	29.6 Cu. Yds.
ITEM -	B-33	3" Bituminous Macadam Base Course	5.6 Sq. Yds.
ITEM -	T-31	Bituminous Seal Coat.	1.4 Gals.
ITEM	T-31	№ 6 Aggregate for Seal Coat	1 Cu. Yds.
ITEM -	E-1	Compacted Subgrade.	100 Sq. Yds.

APPROACH SLABS FOR BR № AUG-25-12~~34~~
Scale: 1"= 10'

APPROACH SLAB DETAILS

SUPERELEVATION TABLES

PROPOSED U.S.R. 25

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P.I.Sta. 387+85.80
P.C.Sta. 377+25.61
P.T.Sta. 398+22.27
D = 1°-00'
Max. Rate of Superelevation .032 ft/ft
Max. Superelevation 0.77

(CONTINUED)

P.I.Sta. 491+66.75
P.C.Sta. 465+22.74
P.T.Sta. 498+09.41
D = 0°-30'
Max. Rate of Superelevation .017 ft/ft
Max. Superelevation = 0.41

P.I.Sta. 651+14.45
P.C.Sta. 637+26.55
P.T.Sta. 664+49.86 B=660+47.66 A
D = 1°-00'
Max. Rate of Superelevation=.032 ft/ft
Max. Superelevation = 0.77

(CONTINUED)

Station	Profile	Elev. Lt. Edge	Super-Elevation	Actual ℄ Elevation	Deduct from Profile	Elev. Rt. Edge	Station	Profile	Elev. Lt. Edge	Super Elevation	Actual ℄ Elevation	Deduct from Profile	Elev. Rt. Edge	Station	Profile	Elev. Lt. Edge	Super Elevation	Actual ℄ Elevation	Deduct From Profile	Elev. Rt. Edge	Station	Profile	Elev. Lt. Edge	Deduct From Profile	Actual ℄ Elevation	Super Elevation	Elev. Rt. Edge	Station	Profile	Elev. Lt. Edge	Deduct From Profile	Actual ℄ Elevation	Super Elevation	Elev. Rt. Edge
375+50	904.39	904.20	0.00	904.39	0.19	904.20	395+25	902.32	902.90	0.77	902.52	0.19	902.13	484+25	904.44	904.25	0.00	904.44	0.19	904.25	635+75	911.32	911.13	0.19	911.32	0.00	911.13	653+25	915.23	915.04	0.19	915.43	0.77	915.81
+75	904.46	904.27	0.00	904.46	↓	904.27	+50	902.22	902.80	↓	902.42	↓	902.03	+50	904.37	904.19	0.01	904.37	↓	904.18	636+00	911.34	911.15	↓	911.34	0.01	911.16	+50	915.24	915.05	↓	915.44	↑	915.82
376+00	904.54	904.40	0.05	904.54	↑	904.35	+75	902.12	902.70	↑	902.32	↑	901.93	+75	904.30	904.17	0.06	904.30	↑	904.11	+25	911.36	911.17	↑	911.36	0.09	911.26	+75	915.25	915.06	↑	915.45	↓	915.63
+25	904.62	904.55	0.12	904.62	↓	904.43	394+00	902.02	902.60	↓	902.22	↓	901.83	485+00	904.22	904.22	0.19	904.22	↓	904.03	+50	911.39	911.20	↓	911.39	0.19	911.39	654+00	915.23	915.04	↓	915.43	↓	915.81
+50	904.68	904.70	0.21	904.68	↑	904.49	+25	901.92	902.50	↑	902.12	↑	901.73	PC 465+22.74	904.15	904.26	0.30	904.15	↑	903.96	+75	911.42	911.23	↑	911.42	0.33	911.56	+25	915.21	915.02	↑	915.41	↓	915.79
+75	904.73	904.85	0.31	904.73	↓	904.54	+50	901.82	902.40	↓	902.02	↓	901.63	+25	904.14	904.27	0.32	904.14	↓	903.95	637+00	911.46	911.27	↓	911.49	0.45	911.72	+50	915.17	914.98	↓	915.37	↓	915.75
377+00	904.78	905.05	0.46	904.82	↑	904.59	+75	901.72	902.30	↑	901.92	↑	901.53	+50	904.07	904.28	0.40	904.08	↑	903.88	+25	911.50	911.31	↑	911.59	0.57	911.86	+75	915.12	914.93	↑	915.32	↓	915.70
PC 125.61	904.83	905.26	0.62	904.95	↓	904.64	395+00	901.62	902.20	↓	901.82	↓	901.43	+75	904.00	904.22	0.41	904.02	↓	903.81	PC 637+26.55	911.50	911.31	↓	911.60	0.58	911.89	655+00	915.05	914.86	↓	915.25	↓	915.63
+50	904.86	905.40	0.73	905.04	↑	904.67	+25	901.52	902.10	↑	901.72	↑	901.33	486+00	903.92	904.14	↑	903.94	↑	903.73	+50	911.54	911.35	↑	911.70	0.69	912.04	+25	914.98	914.79	↑	915.18	↓	915.56
+75	904.89	905.47	0.77	905.08	↓	904.70	+50	901.42	902.00	↓	901.62	↓	901.23	+25	903.84	904.06	↓	903.86	↓	903.65	+75	911.59	911.40	↓	911.78	0.77	912.17	+50	914.80	914.69	↓	915.08	↓	915.46
378+00	904.92	905.50	↓	905.12	↑	904.73	+75	901.32	901.90	↑	901.52	↑	901.13	+50	903.77	903.99	↑	903.79	↑	903.58	638+00	911.64	911.45	↑	911.83	↓	912.22	+75	914.78	914.59	↑	914.98	↓	915.36
+25	904.93	905.51	↓	905.13	↓	904.74	396+00	901.22	901.80	↓	901.42	↓	901.03	+75	903.70	903.92	↓	903.72	↓	903.51	+25	911.69	911.50	↓	911.89	↓	912.27	656+00	914.66	914.47	↓	914.86	↓	915.24
+50	904.94	905.52	↓	905.14	↑	904.75	+25	901.12	901.70	↑	901.32	↑	900.93	487+00	903.62	903.84	↑	903.64	↑	903.43	+50	911.75	911.56	↑	911.95	↓	912.33	+25	914.53	914.34	↑	914.73	↓	915.11
+75	904.94	905.52	↓	905.14	↓	904.75	+50	901.02	901.60	↓	901.22	↓	900.83	+25	903.54	903.76	↓	903.56	↓	903.35	+75	911.81	911.62	↓	912.01	↓	912.39	+50	914.39	914.20	↓	914.59	↓	914.97
379+00	904.93	905.51	↓	905.13	↑	904.74	+75	900.92	901.50	↑	901.12	↑	900.73	+50	903.47	903.69	↑	903.49	↑	903.26	639+00	911.87	911.68	↑	912.07	↓	912.45	+75	914.24	914.05	↑	914.44	↓	914.82
+25	904.93	905.51	↓	905.13	↓	904.74	397+00	900.82	901.40	↓	901.02	↓	900.63	+75	903.40	903.62	↓	903.42	↓	903.21	+25	911.93	911.74	↓	912.13	↓	912.51	657+00	914.09	913.90	↓	914.29	↓	914.67
+50	904.91	905.49	↓	905.11	↑	904.72	+25	900.72	901.30	↑	900.92	↑	900.53	488+00	903.32	903.54	↑	903.34	↑	903.13	+50	911.99	911.80	↑	912.19	↓	912.57	+25	913.94	913.75	↑	914.14	↓	914.52
+75	904.88	905.46	↓	905.06	↓	904.69	+50	900.62	901.20	↓	900.82	↓	900.43	+25	903.24	903.46	↓	903.26	↓	903.05	+75	912.05	911.86	↓	912.25	↓	912.63	+50	913.79	913.60	↓	913.99	↓	914.37
380+00	904.84	905.42	↓	905.04	↑	904.65	+75	900.52	901.10	0.77	900.72	↑	900.33	+50	903.17	903.39	↑	903.19	↑	902.98	640+00	912.11	911.92	↑	912.31	↓	912.69	+75	913.64	913.45	↑	913.84	↓	914.22
+25	904.81	905.39	↓	905.01	↓	904.62	398+00	900.42	900.92	0.69	900.56	↓	900.23	+75	903.10	903.32	↓	903.12	↓	902.91	+25	912.17	911.98	↓	912.37	↓	912.75	658+00	913.49	913.30	↓	913.69	↓	914.07
+50	904.77	905.35	↓	904.97	↑	904.56	PT 122.27	900.33	900.72	0.56	900.43	↑	900.14	489+00	903.02	903.24	↑	903.04	↑	902.83	+50	912.23	912.04	↑	912.43	↓	912.81	+25	913.34	913.15	↑	913.54	↓	913.92
+75	904.73	905.31	↓	904.93	↓	904.54	+25	900.32	900.70	0.57	900.42	↓	900.13	+25	902.94	903.16	↓	902.96	↓	902.75	+75	912.29	912.10	↓	912.49	↓	912.87	+50	913.19	913.00	↓	913.39	↓	913.77
381+00	904.70	905.26	↓	904.90	↑	904.51	+50	900.22	900.47	0.44	900.25	↓	900.03	+50	902.87	903.09	↓	902.89	↓	902.66	641+00	912.35	912.16	↓	912.55	↓	912.93	+75	913.04	912.85	↓	913.24	↓	913.62
+25	904.66	905.24	↓	904.86	↓	904.47	+25	900.12	900.24	0.31	900.12	↓	899.93	+75	902.80	903.02	↓	902.82	↓	902.61	+25	912.41	912.22	↓	912.61	↓	912.99	659+00	912.89	912.70	↓	913.09	↓	913.47
+50	904.62	905.20	↓	904.82	↑	904.43	399+00	900.02	900.01	0.16	900.02	↓	899.83	490+00	902.72	902.94	↓	902.74	↓	902.53	+50	912.47	912.28	↓	912.67	↓	913.05	+25	912.74	912.55	↓	912.94	↓	913.32
+75	904.58	905.16	↓	904.78	↓	904.39	+25	899.92	899.85	0.12	899.92	↓	899.73	+25	902.64	902.86	↓	902.66	↓	902.45	+75	912.53	912.34	↓	912.73	↓	913.11	+50	912.59	912.40	↓	912.79	↓	913.17
382+00	904.55	905.13	↓	904.75	↑	904.36	+50	899.82	899.69	0.06	899.82	↓	899.63	+50	902.57	902.79	↓	902.59	↓	902.38	642+00	912.59	912.40	↓	912.79	↓	913.17	+75	912.44	912.25	↓	912.64	↓	913.02
+25	904.51	905.09	↓	904.71	↓	904.32	+75	899.72	899.53	0.0	899.72	↓	899.53	+75	902.50	902.72	↓	902.52	↓	902.31	+25	912.65	912.46	↓	912.85	↓	913.23	660+00	912.29	912.10	↓	912.49	↓	912.87
+50	904.47	905.05	↓	904.67	↑	904.28	400+00	899.82	899.43	0.0	899.62	0.19	899.43	491+00	902.42	902.64	↓	902.44	↓	902.23	+50	912.71	912.52	↓	912.91	↓	913.29	+25	912.14	911.95	↓	912.34	↓	912.72
+75	904.44	905.02	↓	904.64	↓	904.25								+25	902.34	902.56	↓	902.36	↓	902.15	+75	912.77	912.58	↓	912.97	↓	913.35	+50	911.99	911.80	↓	912.19	↓	912.57
383+00	904.40	904.98	↓	904.60	↑	904.21								+50	902.27	902.49	↓	902.29	↓	902.08	643+00	912.83	912.64	↓	913.03	↓	913.41	+75	911.84	911.65	↓	912.04	↓	912.42
+25	904.36	904.94	↓	904.56	↓	904.17								+75	902.20	902.42	↓	902.22	↓	902.01	+25	912.89	912.70	↓	913.09	↓	913.47	661+00	911.69	911.50	↓	911.89	↓	912.27
+50	904.33	904.91	↓	904.53	↑	904.14								492+00	902.12	902.34	↓	902.14	↓	901.93	+50	912.95	912.76	↓	913.15	↓	913.53	+25	911.54	911.35	↓	911.74	↓	912.12
+75	904.29	904.87	↓	904.49	↓	904.10								+25	902.04	902.26	↓	902.06	↓	901.85	+75	913.01	912.82	↓	913.21	↓	913.59	+50	911.39	911.20	↓	911.59	↓	911.97
384+00	904.25	904.83	↓	904.45	↑	904.06								+50	901.97	902.19	↓	901.99	↓	901.76	644+00	913.07	912.88	↓	913.27	↓	913.65	+75	911.24	911.05	↓	911.44	↓	911.82
+25	904.22	904.80	↓	904.42	↓	904.03								+75	901.90	902.12	↓	901.92	↓	901.71	+25	913.13	912.94	↓	913.33	↓	913.71	662+00	911.09	910.90	↓	911.29	↓	911.67
+50	904.18	904.76	↓	904.36	↑	903.99								493+00	901.82	902.04	↓	901.84	↓	901.63	+50	913.19	913.00	↓	913.39	↓	913.77	+25	910.94	910.75	↓	911.14	↓	911.52
+75	904.14	904.72	↓	904.34	↓	903.95								+25	901.74	901.96	↓	901.76	↓	901.55	+75	913.25	913.06	↓	913.45	↓	913.83	+50	910.79	910.60	↓	910.99	↓	911.37
385+00	904.10	904.68	↓	904.30	↑	903.91								+50	901.67	901.89	↓	901.69	↓	901.48	645+00	913.31	913.12	↓	913.51	↓	913.89	+75	910.64	910.45	↓	910.84	↓	911.22
+25	904.07	904.65	↓	904.27	↓	903.88								+75	901.60	901.82	↓	901.62	↓	901.41	+25	913.37	913.18	↓	913.57	↓	913.95	663+00	910.49	910.30	↓	910.69	↓	911.07
+50	904.03	904.61	↓	904.23	↑	903.84								494+00	901.52	901.74	↓	901.54	↓	901.33	+50	913.43	913.24	↓	913.63	↓	914.01	CBD 1477.25 +25	910.34	910.15	↓	910.54	↓	910.92
+75	903.99	904.57	↓	904.19	↓	903.80								+25	901.44	901.66	↓	901.46	↓	901.25	+75	913.49	913.30	↓	913.69	↓	914.07	+50	910.19	910.00	↓	910.39	↓	910.77
386+00	903.96	904.54	↓	904.16	↑	903.77								+50	901.37	901.59	↓	901.39	↓	901.18	646+00	913.55	913.36	↓	913.75	↓	914.13	+75	910.04	909.85	↓	910.24	↓	910.62
+25	903.92	904.50	↓	904.12	↓	903.73								+75	901.30	901.52	↓	901.32	↓	901.11	+25	913.61	913.42	↓	913.81	↓	914.19	664+00	909.89	909.70	↓	910.09	0.77	910.47
+50	903.88	904.46	↓	904.08	↓	903.69								495+00	901.22	901.44	↓	901.24	↓	901.03	+50	913.67	913.48	↓	913.87	↓	914.25	+25	909.74	909.55	↓	909.93	0.76	910.31
+75	903.84	904.42	↓	904.04	↓	903.65								+25	901.14	901.36	↓	901.16	↓	900.95	+75	913.73	913.54	↓	913.93	↓	914.31	PT 149.88	909.59	909.40	↓	909.75	0.70	910.10
387+00	903.81	904.39	↓	904.01	↓	903.62								+50	901.07	901.29	↓	901.09	↓	900.88	647+00	913.79	913.60	↓	913.99	↓	914.37	+75	909.43	909.24	↓	909.52	0.55	909.79
+25	903.77	904.35	↓	903.97	↓	903.58								+75	901.00	901.22	↓	901.02	↓	900.81	+25	913.85	913.66	↓	914.05	↓	914.43	661+00	909.26	909.09	↓	909.31	0.43	909.52
+50	903.73	904.31	↓	903.93	↓	903.54								496+00	900.92	901.14	↓	900.94	↓	900.73	+50	913.91	913.72	↓	914.11	↓	914.49	+25	909.13	908.94	↓	909.13	0.30	909.24
+75	903.70	904.28	↓	903.90	↓	903.51								+25	900.84	901.06	↓	900.86	↓	900.65	+75	913.97	913.78	↓	914.17	↓	914.55	+50	908.98	908.79	↓	908.96	0.19	909.86
388+00	903.66	904.24	↓	903.86	↓	903.47								+50	900.77	900.99	↓	900.79	↓	900.58	648+00	914.03	913.84	↓	914.23	↓	914.61	+75	908.83	908.64	↓	908.83	0.07	908.71
+25	903.62	904.20	↓	903.82	↓	903.43								+75	900.70	900.92	↓	900.72	↓	900.51	+25	914.09	913.90	↓	914.29	↓	914.67	662+00	908.66	908.49	↓	908.66	0.01	908.50
+50	903.59	904.17	↓	903.79	↓	903.40								497+00	900.62	900.84	↓	900.64	↓	900.43	+50	914.15	913.96	↓	914.35	↓	914.73	+25	908.53	908.34	↓	908.53	0.00	908.34
+75	903.55	904.13	↓	903.75	↓	903.36								+25	900.54	900.76	↓	900.56	↓	900.35	+75	914.21	914.02	↓	914.41	↓	914.79							
389+00	903.51	904.09	↓	903.71	↓	903.32								+50	900.47	900.69	↓	900.49	↓	900.28	649+00	914.27	914.08	↓	914.47	↓	914.85							
+25	903.48	904.06	↓	903.68	↓	903.29								+75	900.40	900.62	↓	900.42	↓	900.21	+25	914.33	914.14	↓	914.53	↓	914.91							
+50	903.44	904.02	↓	903.64	↓	903.25								498+00	900.32	900.54	↓	900.34	↓	900.13	+50	914.39	914.20	↓	914.59	↓	914.97							
+75	903.40	903.98	↓	903.60	↓	903.21								PT 498+09.41	900.29	900.51	0.41	900.31	↓	900.10	+75	914.45	914.26	↓	914.65	↓	915.03							
390+00	903.36	903.94	↓	903.56	↓	903.17								+25	900.25	900.45	0.39	900.26	↓	900.06	650+00	914.51	914.32	↓	914.71	↓	915.09							
+25	903.33	903.91	↓	903.53	↓	903.14								+50	900.21	900.13	0.31	900.21	↓	900.02	+25	914.57	914.38	↓	914.77	↓	915.15							
+50	903.27	903.85	↓	903.47	↓	903.08								+75	900.19	900.18	0.18	900.19	↓	900.00	+50	914.63	914.44	↓	914.83	↓	915.21							
+75	903.21	903.78	↓	903.41	↓	903.02								499+00	900.19	900.06	0.06	900.19	↓	900.00	+75	914.69	914.50	↓	914.89	↓	915.27							
391+00	903.16	903.74	↓	903.36	↓	902.97								+25	900.20	900.02	0.01	900.20	↓	900.01	651+00	914.75	914.56	↓	914.95	↓	915.33							
+25	903.08	903.66	↓	903.28	↓	902.89								+50	900.25	900.06	0.00	900.25	0.19	900.06	+25	914.81	914.62	↓	915.01	↓	915.39							
+50	903.00	903.58	↓	903.20	↓	902.81															+50	914.87	914.68	↓	915.07	↓	915.45							
+75	902.92	903.50	↓	903.12	↓	902.73															+75	914.93	914.74	↓	915.13	↓	915.51							
392+00	902.82	903.40	↓	903.02	↓	902.63															652+00	914.99	914.80	↓	915.19	↓	915.57							
+25	902.72	903.30	↓	902.92	↓	902.53															+25	915.05	914.86	↓	915.25	↓	915.63							
+50	902.62	903.20	↓	902.82	↓	902.43															+50	915.11	914.92	↓	915.31	↓	915.69							
+75	902.52	903.10	↓	902.72	↓	902.33															+75	915.16	914.97	↓	915.36	↓	915.74							
393+00	902.42	903.00	0.77	902.62	0.19	902.23															653+00	915.20	915.01	0.19	915.40	0.77	915.78							

CEMETERY ROAD ~ BLANK PIKE CONNECTION SUPERELEVATION

T.S. Sta. 0+00 (S) C.S. Sta. 10+97.76 (S) Dc = 12°-00' & 6°-00' Max. Superelevation = 1.67
S.C. Sta. 2+00 (S) S.T. Sta. 12+97.76 (S) Max rate of Superelevation = .063 1/1'

Elevation Lt. Edge	Super Elevation	Station	Profile	Actual & Elev.	Deduct from Profile	Elevation Rt Edge	Remarks
902.07	7.0 Lt.	+60	902.18	902.18	7.0 Rt. .15	902.03	Cemetery Rd.
902.17	7.5 Lt.	+50	902.26	902.26	7.50 Rt. .16	902.10	"
902.40	8.75 Lt.	+25	902.45	902.45	8.75 Rt. .18	902.27	"
902.64	.21	7+00 / 0+00 (S)	902.64	902.64	0.21	902.43	(S) Stations
902.97	.35	+25	902.83	902.83		902.62	
903.31	.50	+50	903.02	903.06		902.81	
903.63	.64	+75	903.20	903.31		902.99	
903.97	.82	1+00 (S)	903.36	903.56		903.15	
904.30	1.01	+25	903.50	903.79		903.29	
904.63	1.23	+50	903.61	904.02		903.40	
904.96	1.46	+75	903.71	904.23		903.50	
905.22	1.65	2+00 (S)	903.78	904.40		903.57	
905.30	1.67	+25	903.84	904.57		903.63	
905.33		+50	903.87	904.50		903.66	
905.34		+75	903.88	904.51		903.67	
905.33		3+00 (S)	903.87	904.50		903.66	
905.30		+25	903.84	904.47		903.63	
905.25		+50	903.79	904.42		903.58	
905.19		+75	903.73	904.36		903.52	
905.13		4+00 (S)	903.67	904.30		903.46	
905.06		+25	903.60	904.23		903.39	
905.00		+50	903.54	904.17		903.33	
904.94		+75	903.48	904.11		903.27	
904.88		5+00 (S)	903.42	904.05		903.21	
904.82		+25	903.36	903.99		903.15	
904.76		+50	903.30	903.93		903.09	
904.69		+75	903.23	903.86		903.02	
904.63		6+00 (S)	903.17	903.80		902.96	
904.57		+25	903.11	903.74		902.90	
904.51		+50	903.05	903.68		902.84	
904.45		+75	902.99	903.62		902.78	
904.38		7+00 (S)	902.92	903.55		902.71	
904.32		+25	902.86	903.49		902.65	
904.26		+50	902.80	903.43		902.59	
904.20		+75	902.74	903.37		902.53	
904.14		8+00 (S)	902.68	903.31		902.47	
904.08		+25	902.62	903.25		902.41	
904.01		+50	902.55	903.18		902.34	
903.95		+75	902.49	903.12		902.28	
903.88		9+00 (S)	902.43	903.05		902.21	
903.83		+25	902.37	903.00		902.16	
903.77		+50	902.31	902.94		902.10	
903.72		+75	902.26	902.89		902.05	
903.66		10+00 (S)	902.20	902.83		901.99	
903.63		+25	902.17	902.80		901.96	
903.61		+50	902.15	902.78		901.94	
903.61	1.67	+75	902.15	902.78		901.94	
903.59	1.65	11+00 (S)	902.15	902.77		901.94	
903.52	1.56	+25	902.17	902.74		901.96	
903.38	1.40	+50	902.19	902.68		901.98	
903.25	1.23	+75	902.23	902.64		902.02	
903.11	1.04	12+00 (S)	902.28	902.59		902.07	
902.97	.83	+25	902.35	902.56		902.14	
902.83	.62	+50	902.42	902.52		902.21	
902.70	.41	+75	902.50	902.50		902.29	
902.57	.21	12+97.76 (S) / 14+16.79	902.57	902.57	0.21	902.36	(S) Stationing Blank Pike
902.54	9.59 Lt.	14+25	902.60	902.60	9.59 .20	902.40	

Elevation Lt. Edge	Super Elevation	Station	Profile	Actual & Elev.	Deduct from Profile	Elevation Rt. Edge	Remarks
902.52	8.34 Lt.	14+50	902.68	902.68	8.34 .17	902.51	
902.65	7 Lt.	14+76.79	902.76	902.76	7' Rt. .15	902.61	

SEITZ ~ HOLDEN CONNECTION SUPERELEVATION TABLE

T.S. Sta. 23+66.22 (S-H) C.S. Sta. 30+56.13 (S-H) D = 9°-00'
S.C. Sta. 26+66.22 (S-H) S.T. Sta. 33+56.13 (S-H) Max. Superelevation 1.33

Elevation Lt. Edge	Superelevation	Station	Profile	Actual & Elev.	Deduct from Profile	Elevation Rt. Edge	Remarks
908.69	0.00	16+00 (S)	909.06	909.06	0.17	908.89	8' Lt. & Rt.
907.20	0.00	16+00 (S)	907.42	907.42	0.22	907.20	10.5' Lt. & Rt.
906.90	0.13	15+75 (S)	907.02	907.02	0.25	906.77	11.6' Lt. & Rt.
906.78	0.27	15+50 (S) = 0+00 (S-H)	906.62	906.62	0.27	906.35	13' Lt. & Rt.
906.63	0.54	+25	906.36	906.36	0.27	906.09	"
906.44	0.54	+50	906.17	906.17	0.27	905.90	"
906.33	0.54	+75	906.06	906.06	0.27	905.79	"
906.22	0.45	1+00 (S-H)	906.02	906.02	0.27	905.75	13' Lt. & Rt.
906.03	0.27	+25	906.02	906.02	0.26	905.76	12.7' Lt. & Rt.
905.86	0.08	+50	906.02	906.02	0.24	905.78	11.5' Lt. & Rt.
905.81	0.00	+75	906.02	906.02	0.21	905.81	10.2' Lt. & Rt.
905.82	0.00	+84.65	906.02	906.02	0.20	905.82	9.7' Lt. & Rt.
905.83	0.00	2+00 (S-H)	906.02	906.02	0.19	905.83	9.0' Lt. & Rt.
905.85	0.00	+19.51	906.02	906.02	0.17	905.85	8' Lt. & Rt.
—	—	—	—	—	—	—	—
907.11	0.00	22+50 (S-H)	907.28	907.28	0.17	907.11	
907.14	0.00	+75	907.31	907.31		907.14	
907.17	0.00	23+00 (S-H)	907.34	907.34		907.17	
907.21	0.01	+25	907.37	907.37		907.20	
907.29	0.06	+50	907.40	907.40		907.23	
907.42	0.16	+75	907.43	907.43		907.26	
907.57	0.28	24+00 (S-H)	907.46	907.46		907.29	
907.72	0.40	+25	907.49	907.52		907.32	
907.87	0.52	+50	907.52	907.61		907.35	
908.01	0.63	+75	907.55	907.70		907.38	
908.16	0.75	25+00 (S-H)	907.58	907.79		907.41	
908.30	0.86	+25	907.61	907.87		907.44	
908.44	0.97	+50	907.64	907.96		907.47	
908.59	1.09	+75	907.67	908.05		907.50	
908.72	1.19	26+00 (S-H)	907.70	908.13		907.53	
908.82	1.26	+25	907.73	908.19		907.56	
908.89	1.30	+50	907.76	908.24		907.59	
908.95	1.33	+75	907.79	908.29		907.62	
908.98		27+00 (S-H)	907.82	908.32		907.65	
909.01		+25	907.85	908.35		907.68	
909.04		+50	907.88	908.38		907.71	
909.07		+75	907.91	908.41		907.74	
909.10		28+00 (S-H)	907.94	908.44		907.77	
909.13		+25	907.97	908.47		907.80	
909.19		+50	908.00	908.50		907.83	
909.29		+75	908.03	908.53		907.86	
909.22		29+00 (S-H)	908.06	908.56		907.89	
909.25		+25	908.09	908.69		907.92	
909.26		+50	908.12	908.62		907.95	
909.31		+75	908.15	908.65		907.98	
909.34		30+00 (S-H)	908.18	908.68		908.01	
909.37		+25	908.21	908.71		908.04	
909.40	1.33	+50	908.24	908.74	0.17	908.07	

SEITZ-HOLDEN CONNECTION SUPERELEVATION (Continued)

Elevation Lt. Edge	Super-Elevation	Station	Profile	Actual & Elev.	Deduct from Profile	Elevation Rt. Edge	Remarks
909.41	1.31	30+75 (S-H)	908.27	908.76	0.17	908.10	
909.36	1.23	31+00 (S-H)	908.30	908.75		908.13	
909.29	1.13	+25	908.33	908.73		908.16	
909.23	1.04	+50	908.36	908.71		908.19	
909.16	0.94	+75	908.39	908.69		908.22	
909.09	0.84	32+00 (S-H)	908.42	908.67		908.25	
909.03	0.75	+25	908.45	908.66		908.28	
908.94	0.63	+50	908.46	908.63		908.31	
908.88	0.52	+75	908.53	908.62	0.17	908.36	
908.82	0.35	33+00 (S-H)	908.60	908.65		908.47	
908.78	0.06	+25	908.71	908.75	Variable	908.72	8.05' Lt. & Rt.
908.79	0.17	+50	908.64	908.88		908.96	9.30' Lt. & Rt.
908.85	0.36	+75	909.01	909.03		909.21	10.55' Lt. & Rt.
908.98	0.49	34+00 (S-H)	909.21	909.23		909.47	11.80' Lt. & Rt.
909.17	0.54	+25	909.44	909.44	0.27	909.71	13' Lt. & Rt.
909.42	0.54	+50	909.69	909.69	0.27	909.96	
909.71	0.54	+75	909.98	909.98	0.27	910.25	
910.03	0.54	35+00 (S-H)	910.30	910.30	0.27	910.57	
910.31	0.54	+19.99	910.58	910.58	0.27	910.58	13' Lt. & Rt.

EXISTING TEMPORARY U.S.R. 25 CONNECTION

P.C. STA. 137+08.96 D = 1°-20' SUPERELEVATION PER FT. .043
P.T. 152+50 MAX. SUPERELEVATION 1.03

Elevation Left Edge	Width Lt. & Rt.	Super Elevation	Station	Profile Elevation	Deduct from Profile	Actual & Elevation	Elevation Right Edge
913.41	12'	0.00	135+00	913.60	0.19	913.60	913.41
913.51		0.00	+25	913.70		913.70	913.51
913.63		0.02	+50	913.80		913.80	913.61
913.80		0.09	+75	913.90		913.90	913.71
914.00		0.19	136+00	914.00		914.00	913.81
914.20		0.29	+25	914.10		914.10	913.91
914.41		0.40	+50	914.20		914.21	914.01
914.61		0.50	+75	914.30		914.36	914.11
914.82		0.61	137+00	914.40		914.51	914.21
914.89		0.64	+08.96	914.44		914.57	914.25
915.02		0.71	+25	914.50		914.66	914.31
915.22		0.81	+50	914.60		914.81	914.41
915.43		0.92	+75	914.70		914.97	914.51
915.60		0.99	138+00	914.80		915.11	914.61
915.74		1.03	+25	914.90		915.23	914.71
915.84			+50	915.00		915.33	914.81
915.94			+75	915.10		915.43	914.91
916.04			139+00	915.20		915.53	915.01
916.14			+25	915.30		915.63	915.11
916.24			+50	915.40		915.73	915.21
916.34			+75	915.50		915.83	915.31
916.44			140+00	915.60		915.93	915.41
916.54			+25	915.70		916.03	915.51
916.64			+50	915.80		916.13	915.61
916.74			+75	915.90		916.23	915.71
916.84			141+00	916.00		916.33	915.81
916.94			+25	916.10		916.43	915.91
917.04			+50	916.20		916.53	916.01
917.14			+75	916.30		916.63	916.11
917.24	12'	1.03	142+00	916.40	0.19	916.73	916.21

AUGLAIZE COUNTY AUG-25-5.05

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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ELEVATION LEFT EDGE	WIDTH LT. & RT.	SUPER ELEVATION	STATION	PROFILE ELEVATION	DEDUCT FROM PROFILE	ACTUAL & ELEVATION	ELEVATION RIGHT EDGE
917.34	12'	1.03	142+25	916.50	.19	916.83	916.31
917.44			+50	916.60		916.93	916.41
917.54			+75	916.70		917.03	916.51
917.64			143+00	916.80		917.13	916.61
917.74			+25	916.90		917.23	916.71
917.84			+50	917.00		917.33	916.81
917.94			+75	917.10		917.43	916.91
918.04			144+00	917.20		917.53	917.01
918.14			+25	917.30		917.63	917.11
918.23			+50	917.39		917.72	917.20
918.32			+75	917.48		917.81	917.29
918.40			145+00	917.56		917.89	917.37
918.48			+25	917.64		917.97	917.45
918.55			+50	917.71		918.04	917.52
918.62			+75	917.78		918.11	917.59
918.68			146+00	917.84		918.17	917.65
918.74			+25	917.90		918.23	917.71
918.80			+50	917.96		918.29	917.77
918.86			+75	918.02		918.35	917.83
918.92			147+00	918.08		918.41	917.89
918.98			+25	918.14		918.47	917.95
919.04			+50	918.20		918.53	918.01
919.10			+75	918.26		918.59	918.07
919.16			148+00	918.32		918.65	918.13
919.22			+25	918.38		918.71	918.19
919.28			+50	918.44		918.77	918.25
919.34			+75	918.50		918.83	918.31
919.40			149+00	918.56		918.89	918.37
919.46			+25	918.62		918.95	918.43
919.52			+50	918.68		919.01	918.49
919.58			+75	918.74		919.07	918.55
919.64			150+00	918.80		919.13	918.61
919.70			+25	918.86		919.19	918.67
919.76			+50	918.92		919.25	918.73
919.82			+75	918.98		919.31	918.79
919.88			151+00	919.04		919.37	918.85
919.94			+25	919.10		919.43	918.91
920.00		1.03	+50	919.16		919.49	918.97
920.02		0.99	+75	919.22		919.53	919.03
920.03		0.94	152+00	919.28		919.56	919.09
920.02		0.87	+25	919.34		919.59	919.15
920.00		0.79	+50	919.40		919.61	919.21
919.98		0.69	+75	919.48		919.64	919.29
919.96		0.56	153+00	919.59		919.66	919.40
919.94		0.39	+25	919.74		919.75	919.55
919.93		0.20	+50	919.92		919.92	919.73
919.99		0.05	+75	920.13		920.13	919.94
920.19		0.00	154+00	920.38		920.38	920.19
920.47			+25	920.66		920.66	920.47
920.79			+50	920.98		920.98	920.79
921.15			+75	921.34		921.34	921.15
921.53	12'	0.00	155+00	921.72	0.19	921.72	921.53

SUPERELEVATION TABLES

FED. RD. DIVISION	STATE	PROJECT	TYPE CONST.
2	OHIO		

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466

AUGLAIZE COUNTY
AUG-25-5.05

Tacked Hub
Tacked Hub
℄ U.S. 25
Tacked Hub
Lane
P.O.T. Sta. 290+53.52

Barn
Gen
Light Pole
Well
N

SHEET
BEGIN
Conc. Patio
12' Gate
90°10'30"
16' Gate
Ohio Bell Telephone Cable (Buried)
±62 ℄ 10' Gravel
℄ Gate
Inlet
5' F.E.
Bdry. Bearing Tree ℄ Ex.
5' F.E.
END FLARE
BEGIN FLARE
Inlet
T.S.
S.C.
END
SHEET

290 291 292 293 294 295 N0°45'E 296 297 298 299 300 301 302 303 ℄ U.S. 25 304 ℄ Survey 305

0+00(E) 1+00(E) 2+00(E) 3+00(E) 4+00(E)
(0+00(D)) 15+00(D)

935
930
925
920
915

923.32 923.16 923.02 922.86 922.72 922.56 922.42 922.26 922.13 922.14

400' V.C.
P.C. Sta. 304+50
Proposed Future Profile
-0.30%

153 - 934.80
934.30
932.60
929.00
927.00
925.77
925.55
925.35
925.25
925.91
925.65
925.25
925.45
924.15
923.25
922.24
921.54
921.64
921.14
921.54
921.14
920.70

290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305

PLAN & PROFILE STA. 290+00 TO STA. 305+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

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466

AUGLAIZE COUNTY
AUG-25-5.05

Proposed Future ℄ U.S.25

Tacked Hub

Hub

Tacked Hub

P.O.T. Sta 307+80 ea

Proposed Future ℄ Ramp "D"

℄ Ramp "D"

Proposed Future Southbound U.S.R. 25

Proposed Future U.S.R. 33

P.I. Sta. 166+04.37 (A) = Sta. 312+42.16 - 84.50' L.T.

Proposed Future Northbound

Prop. ℄ 309 U.S.R. 25

N 0° 45' E

Proposed Future ℄ Ramp "B"

Proposed Future Ramp "B"

Proposed Future ℄ Ramp "E"

P.T.

T.S.

S.T.

℄ U.S. 25

Capped nail in stump

℄ U.S. 25

Hub Sta. 318+50

℄ Canning Factory Road

R/W Fence

AUG-25-0504 Ramp "A"

Capped nail in 15" Elm

Included in Ramp "A" Quantities

Sta. 312+25.20

Temp. Guard Rail

Included in Ramp "A" Quantities

1-G

2-D

1-D

1-10 Dumped Rock Fill

42" I.E. Under Dr. & Apron Spec. M-6.4 (C)

Std. Longitudinal Key Joint for future Flare Connection

Sta 318+25.20 Prop 25 Canning Factory Road

8"I-3 Pipe

1-A

3-D

2-G

E-12 Pipe Removed

4-D

℄ Field Drive Abandon

4" F.T.

BEGIN WORK STA 316+00.00

STA. 317+00 BEGIN PROJECT

Sta 317+88.00

Sta 320+00 - 114.7' Rt. F.G. Elev. 912.60 ft. ± 0° 01.30

Sta 310+00 - 113.7' Rt. Begin 6"I-3 Pipe Elev. 912.79

E-10 Gravel Road

IN-196(5)

Marker to be furnished and erected on the Right by the State of Ohio before acceptance of this Project

BENCH MARK
BM #3 R.R. Spike in base of 16" Stump 149' Lt. of Sta. 318+08
Elevation = 918.12

Plans Prepared in the Office of Traffic Design
Bureau of Traffic Engineering and Planning
Department of Highways

922.54 922.39 922.24 922.09 921.94 921.79 921.64 921.49 921.34 921.19 921.04 920.89 920.98 921.05 921.15 921.30 921.52 921.76 922.09 922.45 922.87 923.33 923.85 924.42 925.04 925.72 926.44 927.94 929.44 930.94 951.69 952.59 953.06 953.74 954.36 954.89 955.56 956.14 956.66 957.19 957.66 958.14 958.50 958.89 959.36 959.74 940.06 940.39

TYPICAL SECTION OF PROPOSED ADJOINING PAVEMENT SAME AS TYPICAL SECTION Nº 1, Sheet Nº 3

Prop. Future Profile U.S.R. 25

- 0.30%

+3.00%

400' V.C.

1500' V.C.

P.C. Sta. 310+00

P.T. Sta. 314+00

P.I. Sta. 312+00 Elev. 920.44

930 925 920 915 910 940 935

320.70 920.00 918.30 919.10 919.00 918.50 918.56 918.16 917.76 918.36 918.46 917.66 915.96 915.31 915.51 915.51 915.51

120 - 916.01
+14 - 914.71
123 - 916.01
+38 - 915.51
123 - 916.01
+43 - 914.81

305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320

PLAN & PROFILE STA. 305+00 TO STA. 320+00

MICROFILMED
DEC 29 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

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466

AUGLAIZE COUNTY
AUG-25-5.05

Capped Nail 4" Sap
F. J. Pitthan
Sta. 322+80.78 U.S. 25
45.42'
24.78'
Capped Nail-37th Tie West
See Detail Sheet № 328
3-D
Hub
South Rail U.S. 25 ℄
Capped Nail 37th Tie E.
Capped Nail (West Side)
4-D
Iron Fence Post Marked with yellow
Sta. 323+39
9.05'
Capped Nail
Sta 324+10 - 124' Lt. Sta. I-B № 12 A.E.B.
℄ Grate 910.4 ; ℄ 6" 908.5
Prop. 6" I-3
5" Sap
Capped Nail
P.O.T. STA 323+00
Sta. 323+10.07 U.S.R. 25
Sta 246+11.9 N.Y.C. (T&OC) RR.
Sta. 325+45-124' Lt.
6" x 45°
1-G
1-D
SHEET
6" I-3
24" S.27
12" I-2
Abandon Telephone
E-12 Pipe Removed ?
E-12 Pipe Removed
5-D
Sta. 326+33 Begin R/W Fence 14'
Sta. 322+31.14-30' Lt.
Sta. 326+63 End Flare
Sta. 327+13
C.B.
4' of 12" I-3
- 130' Lt. I-B № 12 A.E.B.
℄ Grate = 908.2
℄ 12" I-3 = 906.78
N
4-G
See Detail Sheet № 74
6-D
AUG-25-0528
Sta 329+00 Prop. 15"-S.27
Pipe for Roadway Culverts.
S.T. Sta. 17+37.74 (C)
326+16.98 - 55' Lt.
C.S. Sta. 14+37.74 (C)
C.S. Sta. 12+95.41 (C)
Included in Ramp
Included in Ramp "C"
5-G
SHEET
P.I. Sta. 13+69.92 (C) =
Sta. 361+92.44 - 56' Lt.
17100(C)
16100(C)
15100(C)
14100(C)
12900(C)
11100(C)
1186(C)
320
321
322
323
324
325
326 N 0° 45' E
327
328
329+10
330
331
332
333
334
335
170(A)
171(A)
6" I-3 Pipe Under Part of Appr.
E-12 Pipe Removed
Barricade
Brush & Small Trees 8" to 10"
4" P.T.
BEGIN
END
20'R
2461
2462
2460
2-D
2-G
3-G
05-1
Sta. 326+03.45 - 41' Rt.
Sta. 0+00 (A)
Sta. 326+45.09
T.S. Sta. 1+66.67 (A)
Sta. 331+15.01 - 55' Rt.
Sta. 331+99.16 - 60.01 Rt.
Sta. 3+96.19 (A)
Sta. 3+46.83 - 10' Lt.
Sta. 3+66.87 (A)
S.C. Sta. 4+17.98 (A)
C.S. Sta. 4+17.98 (A)
Sta. 382+11.07
Sta. 381+91.01
7-D
6-G
Guard Rail Included in Ramp "A"
AUG-25-0537
Ramp "A" Prop. 98'-27"
Sta. 5+50 (A) Typ.
See Detail Sheet № 345
S-27 Typ.
Sta. 5+17.98 (A)
F. J. Pitthan
Begin R/W Fence 12'
End R/W Fence 12'
See change order
13.0% ℄
N.Y.C. (T & OC) R.R. 38' North of Track
P.I. Sta. 323+00
Elev. 953.44
Gate
Sta. 324+00 (Northbound U.S.R. 25
Type: OS-2-A
Span: 44'
H: 3'
2 signs: 3'×6'
4 sign supports: 3, 9, 9.
9 from beam splice
BENCH MARK
B.M #4 R.R. Spike in ℄ 122' Lt of Sta. 323+79
Elevation = 912.66
PROPOSED STRUCTURE Aug-25-0517
TYPE: Continuous reinforced concrete Slab on reinf. Concrete Substructure
SPAN: 44'-55'-44' ℄ brgs.
ROADWAY: 50'-0" F/F 2'-0" Safety Curbs
LOAD FREQUENCY: CF = 2000 (51)
SKEW: 21°-21'-30" L.F.
WEARING SURFACE: 1" Monolithic
APPROACH SLABS: AS-1-54 (25' long)
ALIGNMENT: Tangent
Bridge Limits
Sta 322+37.75
Sta 323+62.56
945
940
935
930
925
920
915
910
-3.00%
1500' V.C.
P.T. Sta. 330+50
911.57
911.55
910.67
910.17
910.27
910.17
908.97
908.26
908.86
911.51
911.61
912.51
912.20
910.40
910.00
910.17
910.67
910.17
911.57
911.27
910.17
908.97
908.26
908.86
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335

PLAN & PROFILE STA. 320+00 TO STA. 335+00

MICROFILMED
DEC 29 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS	44
2	OHIO			466

AUGLAIZE COUNTY
AUG-25-5.05

F.J. Pitthan — E.O. Schneider — F.J. Pitthan — E.O. Schneider — F.J. Pitthan — E. O. Schneider

Point of Intersection
Sta. 338+19.12 (U.S.R.25) = Sta. 868+73.02 U.S.R.33
Capped Nail

E. Survey U.S.R.25 — Tacked Hub — Rw Mon. — Rw Mon. — Rw Mon. — Rw Mon.

Sta. 337+00, 51' Lt. & Rt. Begin 1-4 Pipe Underdrain

SHEET — 2-G — 134.6 — BEGIN — 162.3 — 1-G

For Removal & Quantities See Sheet No. 197

2-U — AUG-25-0555 Ramp "D"

Prop. 6" 1-4 Pipe Underdrain

AUG-25-0549
Sta. 340+00 - Prop 72' of S-27 Pipe

341 N 0° 45' E

Sta. 338+19.12 U.S.R. 25°
Sta. 868+73.02 U.S.R. 33

1-D — See Detail Sheet No. 176

P.I. Sta. 13+69.92 (B) = Sta. 344+15.64 - 53' Rt.

AUG-25-0556 Ramp "B"

1-U

Sta. 345+00 - 51' Lt. & Rt. Begin 1-4 Pipe Underdrain

End 1-4 Pipe Underdrain

C.S. Sta. 141+37.74 (B)

S.C. Sta. 121+95.41

S.T. Sta. 61+95.41

S.T. Sta. 61+79.80 (D)

C.S. Sta. 41+17.93 (D)

C.S. Sta. 3+66.74 (D)

T.S. Sta. 1+66.07 (D)

2-D — See Detail Sheet No. 22

AUG-25-0563

Sta. 347+93.15

Sta. 0+00 (D) = Sta. 340+34.70 141' Lt.

Sta. 349+00-114' Lt. 30"x24" 1-S Special Begin 1-S Pipe

4-D — 90°x24" 1-S Pipe — 100' of E-12 Pipe Removed

195' of E-12 Pipe Removed

Sta. 347+37.74 (B) 51' Rt. — S.T. Sta. 171+20.35 - 53' Rt.

Sta. 340+85.75 Flare — Begin

3-D

END

BENCH MARK
B.M. #5 R.R. Spike in ∅ 127' Lt of Sta. 338+67
Elevation 907.94

Top of Pavement Exist USR 33 - 928.20

28'

400' V.C

-3.00% — -0.30% —

P.C. Sta. 337+00

P.T. Sta. 341+00

100 - F/L of 1-4 51' Lt. & Rt. Elev. 906.00

100 - F/L of 1-4 51' Lt. & Rt. Elev. 902.00

P.I. Sta. 339+00 Elev. 905.44

100 - F/L of 1-4 51' Lt. & Rt. 899.50

100 - F/L 1-4 51' Lt. & Rt. 898.30

100 - F/L 1-4 51' Lt. & Rt. 897.50
F/L 1-4 51' Lt. 897.50
F/L 1-4 Outlet 101' Lt. 897.25

F/L of 1-4 Lt. & Rt.

+89 - 906.26
+36 - 908.26

+48 - 905.26
+55 - 905.26

PROPOSED STRUCTURE
TYPE: Continuous Steel Beams with reinf. Concrete Deck & Structure
SPANS: 60'-75'-75'-60' ℄ brgs.
ROADWAY: 28' f/f of 2 Safty Curbs
LOAD FREQUENCY: CF = 400 (51)
SKEW: 32°-53' A.F.
WEARING SURFACE: 1" Monolithic
APPROACH SLABS: AS-1-54 (20' Long)
ALIGNMENT: Tangent
AUG-25-0548

PLAN & PROFILE STA. 335+00 TO STA. 350+00

MICROFILMED
DEC 29 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

45
466

AUGLAIZE COUNTY
AUG-25-5.05

Sta. 353+00 (Southbound U.S.R. 25
Type: 05-2-A
Span: 44'
H: 3'
2 Signs 3'x6'
4 signs supports: 3'; 3'; 8'; 9'; from beam splice.

N.E. Cor. Hdwl
Sta. 351+00
25.2'
30.4'
12" Willow
Sta. 352+62 - 115' Lt.
Begin 10' of 24" 1-3 Outlet Pipe
12" Mulberry
64.57'
Sta. 352+00
56.77'
6" Sap.
End R/W Fence +20
Begin R/W Fence +28
2-D
05-1
262' of 24" 1-3 Pipe for Roadway Drainage
Remove under miscellaneous Removal note
16"x12"x5'-4"x4 Conc. Hdwl.
126' of E-12 Pipe Removed
36" F.T.
1-D
1-G
5-D
See Detail Sheet No. 79
AUG-25-0578
Sta. 355+00 Prop. 82' of 15" S-27 Pipe
N 0°-45'E
3-D
AUG-25-0571
6" F.T.
110' of E-12 Pipe Removed
24"
BEGIN
150
End Flare
End R/W Fence + 51
4" F.T.
Sta. 351+35.75
Begin R/W Fitter + 98
Sta. 351+55 - 143' Rt. End 8" 1-3 outlet Pipe
Sta. 351+26 - 143' Rt. Begin 30' of 8" 1-3 outlet Pipe
4-D
Sta. 352+35 Prop. 176' of Twin 15"-10"x 9'-10" S-26 Pipe
For details & Quantities See Sheet No. 329

EDA O. SCHNEIDER a.k.a.
EDITH O. SCHNEIDER

EDA O. SCHNEIDER a.k.a.
EDITH O. SCHNEIDER

JOSEPH F. KOHLER

JOSEPH F. KOHLER

1064
69°-52'
150
Sta. 355+00 Prop. 82' of 15" S-27 Pipe
N 0°-45'E
Prop. 15" S-27 Pipe See Detail Sheet No. 79
6-D
AUG-25-0585
Sta. 360+95-85' Lt. to Sta. 360+95-85' Lt. 9' Wide x 95' Long Sod
Tacked Hub Flush
U.S. 25 P.O.T.
166.0'
166.0'
Tacked Hub Flush
r Hub 166.99
P.O.T. STA. 363+50.67
2-U
7-D
F/L 898.6
F/L 898.7
F/L 898.2
Sta. 360+95-85' Lt. to Sta. 361+50-74' Lt.
55 Lin. Ft.-E-14 Type 1 Paved Gutter
Abandon
R/W Fence
Prop. 1-4 Pipe Underdrain
LANE
SHEET
END
Prop. 1-4 Pipe Underdrain
1-U
Sta. 361+00-51' Lt. & Rt. End 1-4 Pipe Underdrain
R/W Fence
Abandon
Gate

PROPOSED STRUCTURE
TYPE: S-26 Sectional Corrugated Metal Structure
SIZE: Twin 15'-10"x 9'-10" x 176'-0"
ROADWAY WIDTH: 44'-0"
SKEW: 26°-0" Left Forward
ALIGNMENT: Tangent
DRAINAGE AREA: 5.1 Sq. Miles

EXISTING STRUCTURE
NONE

BENCH MARK
B.M. #6 Hub in Fence line 104' Rt of Sta. 350+77
Elevation = 893.80

BENCH MARK
B.M. #7 R.R. Spike base of 12" Willow 222' Lt. of Sta. 353+39
Elevation 892.13

BENCH MARK
B.M. #8 R.R. Spike in base of 40" Oak 188' Rt. of Sta. 363+92
Elevation = 902.29

902.14 901.99 901.84 901.69 901.54 901.39 901.24 901.09 900.94 900.79 900.64 900.49 900.34 900.19 900.04 899.96 899.91 899.86 899.82 899.78 899.76 899.75 899.74 899.75 899.76 899.78 899.82 899.86 899.91 899.96 900.04 900.19 900.34 900.49 900.64 900.79 900.94 901.09 901.24

350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365

905
900
895
890
885

400' V.C.
P.C. Sta. 357+00
P.I. Sta. 359+00
P.T. Sta. 361+00
899.44
0.30%
0.30%
H.W Elev. 897.6 (50 yr.)
697.6 (50 yr.) H.W.
Normal Elev. 889.0±
F/L Elev. 887.5
F/L of 1-4 Pipe Underdrain Lt & Rt.

834.04
832.74 #6 - 892.67
#5 - 888.97
#22 - 888.97
#28 - 892.37
#37 - 892.37
#44 - 893.07
#60 - 892.07
832.27
832.57
833.17
832.37
832.38
831.48
831.98
831.70
834.60
#54-896.10 134' - 886.00
#43-895.90
#60-895.68 176' - 886.72
893.82 +00 - F/L of 1-4 - 51' Rt. 894.04
F/L 51' Lt. 893.50
Outlet Elev. 893.00
902.52 #25-902.52
#30-904.02
904.32 +00 F/L of 1-4 51' Lt & Rt.
F/L Elev. 894.84
904.32
#52-905.52
#53-905.32
905.24
906.04

350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365

PLAN & PROFILE STA. 350+00 TO STA. 365+00

MICROFILMED
DEC 29 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

46
465

AUGLAIZE COUNTY
AUG-25-5.05

Capped Nail — R 25.93' — S 64°52' E — Capped Nail
Hub Sta. 372+12
℄ U.S. 25
R.R. Spike ℄ Middle Pike
P.O.T. STA. 371+37.58 ℄ Middle Pike

Permanent Fence — Tacked Hub
Temp. Fence — Tacked Hub
℄ U.S. 25 — P.C. Hub — P.O.T. 388+40
Tacked Hub
P.C. STA. 377+25.61

N

EDA O. SCHNEIDER
a.k.a. EDITH O. SCHNEIDER

SHEET

2-U — 1-D — 1-U — 2-D — 1-A — 3-U — 3-D

R/W Fence — Prop. 15" S-27 Pipe See Detail Sheet № 02
Sta. 371+50 - 51' Lt. End 1-4 Pipe Underdrain
End R/W Fence 168
Prop. 15" F.T.
Prop. 15" I-3
See Middle Pike Details
Begin R/W Fence 196
Temporary Fence
175-23' Lt. Begin 1-4 Pipe Underdrain
Prop. I-4 Pipe Underdrain
AUG-25-0595
365 366 367 368 369 N 0° 45' E 370 371 372 373 374 375 376 377 378 379 380
BEGIN
Prop. I-4 Pipe Underdrain
R/W Fence
Sta. 371+37.58 USR 25 = Sta. 15+00 Middle Pike
End R/W Fence 193
4" F.T. — 6" F.T. — 12" V.S.P. — 15" F.T.
Prop. 15" I-3
Begin R/W Fence 101
Abandon
18E Dr.
Dug well wind Pump
Abandon
Sta. 371+50 - 51' Rt. End 1-4 Pipe Underdrain
EDA O. SCHNEIDER a.k.a. EDITH O. SCHNEIDER
Abandon
R/W Fence
P.C. Sta. 377+25.61
P.I. Sta. 387+85.80
Δ = 20°58' Rt. R = 5729.58
D = 1°00' P.C. Sta. 377+25.61
T = 1060.19 P.T. Sta. 398+22.27
L = 2096.66
E = 97.26
Sta. 377+60 - 80' Rt. Begin 18" of 8" 1-3 Pipe Outlet F/L 869.3
SHEET
END
Joseph F Kohler
See Middle Pike Details

BENCH MARK
B.M. #9 R.R. Spike in ℄ 115' Lt. of Sta. 371+15
Elevation = 902.11

PROPOSED STRUCTURE
TYPE: Continuous Concrete deck — Steel Beam with Reinf. and substructure.
SPANS: 48'-60'-60'-48'
ROADWAY: 24'-0" f/f — 2'-0" Safety curbs
LOAD FREQUENCY: CF = 30 (51)
SKEW: None
WEARING SURFACE: ½" Mono.-Conc.
APPR SLABS: AS-1-54 (20' Long)
ALIGNMENT: Tangent. AUG-25-0608

CURVE DATA

901.24	901.39	901.54	901.69
901.84	901.99	902.14	902.29
902.44	902.59	902.74	902.89
903.04	903.19	903.34	903.49
903.64	903.79	903.94	904.09
904.24	904.39	904.54	904.62
904.69	904.73	904.76	904.83
904.86	904.89	904.92	904.93
904.94	904.94	904.93	904.93
904.91	904.86	904.84	

24' — Top of Pavement Middle Pike Overhead = 921.90

910 / 905 / 900 / 895

0.30% — 0.3% — F/L of I-4 Pipe Underdrain Lt. & Rt.
Sta. 371+50 - 51' Lt & Rt. F/L of I-4 897.69
P.I. Sta. 376+00 Elev. 905.14
0.146%
F/L of I-4 Pipe 0.9%
P.C. Sta. 376+00
P.T. Sta. 380+00
400' V.C.
175-F/L of I-4 Pipe Underdrain 900.01

| | | |

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS	47
2	OHIO			466

AUGLAIZE COUNTY
AUG-25-5.05

EDA O. SCHNEIDER aka.
EDITH O. SCHNEIDER

N

Tacked Hub
Tangent
P.O.S.T. 384+10.00
5136'(Stubs)
10120'(Stubs)
P.O.S.T. 2'So. of fence
1000'
79.90
800'
P.T.
Tacked Hub
Capped Nail 24"Oak
Tacked Hub
P.I. STA. 387+85.80

URBEN SCHUMAN

AUG-25-0629
Prop. 15" S-27 Pipe
See Detail Sheet № 85

1-U
Temporary Fence
SHEET
R/W Fence
Prop. 1-4 Pipe Underdrain
143' 8"x 46'0"
Sta. 360+66 Prop. 36" S-27 Pipe
BEGIN
R/W Fence
1-D
AUG-25-0619
See Sheet № 332
for Details & Quantities
EDA O. SCHNEIDER a.k.a.
EDITH O. SCHNEIDER
℄ Draw
To Remain in Place
5" Conc. Tile
2-D
2-U
5' F.T.
Prop. 1-4 Pipe Underdrain
8°35'30" To Tangent
85°34'30" Tangent To Curve
To Remain in Place
5' F.T.
380
381
382
383
384
385
386
387
388
389
390
391
Begin Sod 390+82
℄ Draw
4-D
End Sod 393+00
3-U
R/W Fence
SHEET
AUG-25-0637
Prop 164'-48" S-27 Pipe Sta. 391+17
Prop. 14" Pipe Underdrain
3-D
See Sheet №333
for Details & Quantities
Begin Sod 391+19
End Sod 393+00
5-D
R/W Fence
END

CURVE DATA

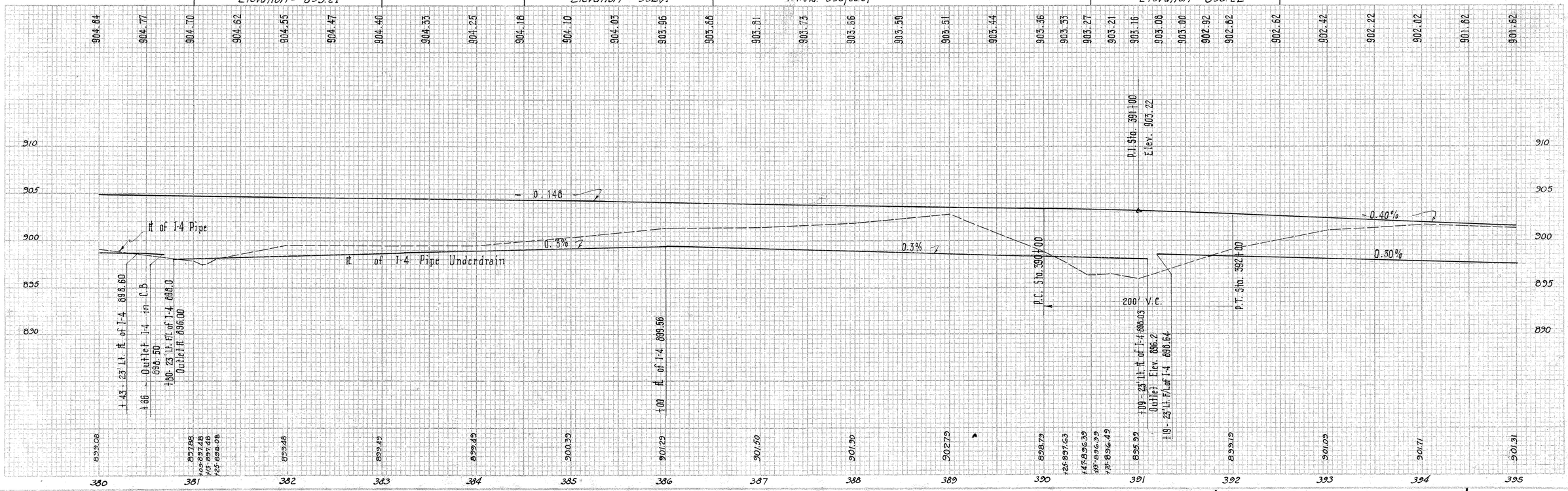
P.I. Sta. 387+85.80
Δ = 20° 58' Rt.
D = 1° 00'
T = 1060.19
L = 2096.66
E = 97.26
R = 5729.58
P.C. Sta. 377+25.61
P.T. Sta. = 398+22.27

URBEN SCHUMAN

BENCH MARK
B.M. #10 R.R. spike in base 6" Sapling 92' Rt. of Sta. 383+47
Elevation = 899.21

BENCH MARK
B.M. #11 R.R. spike in base of 30" Oak 91 Rt. of Sta. 386+03
Elevation = 902.51

BENCH MARK
B.M. #12 R.R. Spike in base of 30" Oak 86' Lt. of Sta. 391+58
Elevation = 898.22



PLAN & PROFILE STA. 380+00 TO STA. 395+00

FED. RD DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

46
466

AUGLAIZE COUNTY
AUG-25-5.05

EDA O. SCHNEIDER a.k.a.
EDITH O. SCHNEIDER

Tacked Hub
82.00'
℄ U.S. 25
P.T. Hub Flush
64.00'
Tacked Hub (Flush) +82.27
Tacked Hub
P.T. STA. 398+22.27

140.22'

AUG-25-0653
Prop. 15" S-27 Pipe
See Detail Sheet No. 87

1-U
1-D
SHEET
R/W Fence
Prop. 1-4 Pipe Underdrain
BEGIN
R/W Fence
A

396 397 398 399 400 401 402 403 N 21° 43' E 404 405 406 407 408 409 410

Sta. 398+95 End 1-4 Pipe Underdrain

P.T. Sta. 398+22.27

CURVE DATA
P.I. Sta. 387+85.80
Δ = 20° 58' Rt.
D = 1° 00'
T = 1060.19
L = 2096.66
E = 97.26
R = 5729.58
P.C. Sta. 377+25.61
P.T. Sta. 398+22.27

URBEN SCHUMAN

3-D
Sta. 404+84 ± - 74' Lt. Plug Exist. Tile with 0.1 Cu. Yds. of Conc.
4' FT. 2
E-12 Pipe Removed
2-D
Sta. 403+62 - 70' Rt. Begin 10' of 8" 1-3 Pipe Outlet Elev. 886.5±

4-D
4" Conc. Tile
E-12 Pipe Removed
4" Conc. Tile 2

AUG-25-0670

5-D
Sta. 407+00 - 70' Lt. - Begin 90 Lin. Ft. × 9' Wide Soda ~ (90 Sq. Yd.)
Sta. 407+65 98' Lt. Begin 15" Paved Gutter
Sta. 407+98 × 94.5' Lt. Paved Type 1 Gutter
See Detail Sheet No. 334
End R/W Fence 146
Begin R/W Fence 114

6-D
Sta. 407+00 - 6.0' Rt. Begin 50 Lin Ft × 9' Wide Soda ~ (30 Sq. Yd.)
Sta. 407+86 Twin 48" × 170' S-27 pipe
Sta. 407+48 78' Rt. Begin 20' Type 1 Paved Gutter
Sta. 407+67 84' Rt. End Paved Gutter
See Detail Sheet No. 334
Type Drop Inlet

7-D
Sta. 409+00 72' - 15" S-27 pipe
See Detail Sheet No. 89
AUG-25-0672

8-D
See Detail Sheet No. 89

9-D
Sta. 410+00 70' - 15" S-27 Pipe

10-D
E-12 Pipe Removed 228 Lin. Ft.
5' FT.
End R/W Fence 62
Begin R/W Fence 62
4" Conc. Tile
4" Conc. 2

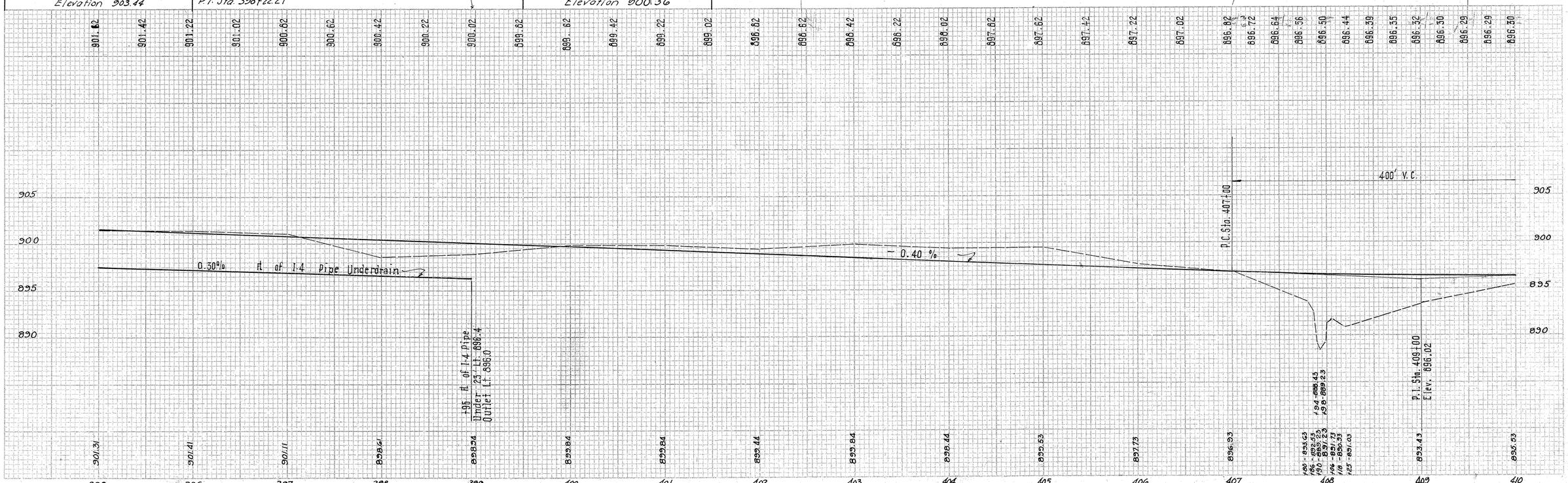
11-D
See Detail Sheet No. 88
AUG-25-0674

SHEET
END
Sta. 409+50 - 77' Rt. Begin 10' of 6" 1-3 Pipe Outlet F/L 882.0

BENCH MARK
B.M. #13 R.R. Spike in Base of 20" Oak 117 Rt. of Sta. 395+56
Elevation 903.44

EDA O. SCHNEIDER a.k.a.
EDITH O. SCHNEIDER

BENCH MARK
B.M. #14 R.R. Spike in base of 18" Oak 120' Rt. of Sta. 398+25
Elevation 900.36



PLAN & PROFILE STA. 395+00 TO STA. 410+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

49
466

AUGLAIZE COUNTY
AUG-25-5.05

G. A. WINTZER & SON COMPANY
A Corporation

CHARLES LEWIS HERBST - LIFE ESTATE

CHARLES LEWIS HERBST - LIFE ESTATE

P.O.T. STA. 412+58.00

P.O.T. STA 417+17.77

Capped Nail
Twin 12" Hickory
412+00 Hub Flush
413+00 ℄ U.S. 25 ℄
Tacked Hub
12" Mulberry
Capped Nail
2nd Conc. Post Lt. of ℄
189 Hub
6" Thorn
R/W Fence
SHEET
Begin Flare - Sta. 414+25.17
End Flare Sta. 416+75.17
Sta. 417+75.17 - 55' Lt. T.S. Sta. 0+00 (D)
S.C. Sta. 21+50 (D)
℄ R/W Fence
1100 (D)
2100 (D)
5100 (D)
N100 (D)
28° 01' 48"
24'
8" Thorn Oak
8" Thorn
8" Willow
Fall Thorn
12"
Ex. Parking
50'
N 21° 43' E
End
Removed under E-1
Plug Ex. 4" with
0.1 Cu. Yd. Conc.
4" Conc.
3" FT.
1-D
2-D
3-D
4" FT.
BEGIN
R/W Fence
Sta. 410+26 - 66' Rt. Begin 10' of 8" I-3 Pipe Outlet ft. 893.0
Ex 4" conc. tile
Sta. 410+69 - 75' Rt. Begin 10' of 8" I-3 Pipe Outlet. ft. 893.0
Sta. 411+43 - 74' Rt. Begin 10' of 6" I-3 Pipe Outlet ft. 893.0
OS-1
Station 416+00 (N. Bound U.S. 25)
TYPE: OS-2-A
SPAN: 44'
H: 3'
2 Signs: 3' x 6'
4 Sign Supports: 3', 3', 9', 9'
from beam Splice.
67° 28'
P.I. Sta. 420+90 - 55' Lt. - Sta. 5+14.66 (D)
Begin Flare - Sta. 420+75
24'
5" FT.
49.12 Rt.
Sta. 422+56.65 T.S. 0+00 (B)
Begin Flare + 16.47 - 55' Rt.
End Flare + 76.47
18"
6" Lt.
10' Lt.
Sta. 1+59.69 (B)
Sta. 1+80.69 (B)
S.C. Sta. 2+00 (B)
6" FT.
E-12 Pipe Removed See Interchange Quantities
℄ R/W Fence
SHEET
END

BENCH MARK
B.M.#15 R.R. Spike in ϕ 133' Rt of Sta. 412+96
Elevation 899.74

BENCH MARK
B.M.#16 R.R. Spike in 12" thorn tree 147' Rt of Sta. 418+26
Elevation - 900.01

410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425

896.30 896.31 896.34 896.37 896.42 896.52 896.62 896.72 896.82 896.92 897.02 897.12 897.22 897.32 897.42 897.52 897.62 897.72 897.82 897.87 897.90 897.93 897.96 897.97 897.96 897.95 897.93 897.90 897.86 897.80 897.75 897.70 897.62 897.47 897.32 897.17 897.02 896.87 896.72

400' V.C.
P.T. Sta. 411+00
P.I. Sta. 420+00 Elev. 898.22
400' V.C.
P.C. Sta. 416+00
P.I. Sta. 422+00
0.20%
0.30%
905
900
895
890
885

825.83 896.33 897.27 897.17 896.68 897.18 898.68 898.72 899.52 899.57 899.47 898.87 900.17 900.37 899.17 898.70

PLAN & PROFILE STA. 410+00 TO STA. 425+00

MICROFILMED
DEC 29 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

50
466

AUGLAIZE COUNTY
AUG-25-5.05

N

CHARLES LEWIS HERBST + LIFE ESTATE

Tacked Hub
426+63.26 Back
Tacked Hub
U.S. 25
Capped Nail
P.O.T. STA. 426+87.08 (& Blank Pike)
R/W Mon.
4" Sapling
690'
E. U.S.R. 25
POINT OF INTERSECTION
P.O.T. STA. 430+76.08 U.S.R. 25
= Sta. 119+86.82 S.R. 67
Sta. 12+61.49 (C)
AUG-25-0725 - Ramp "C"
Prop. 24° S-27
R/W Fence
Sta. 15+71.76 (C) - 8' Rt.
Sta. 16+10.76 (C) - 10' Rt.
C.S. Sta. 16+48.75 (C)
Sta. 437+96.86 - 48.34 Lt.
S.T. Sta. 16+49.76 (C)
Plug with 0.1 Cu. Yd Conc.
7-D
Sta. 439+50
R/W Fence
End Flare
SHEET
Abandon
3" E.T.A.
Sta. 430+76.08 U.S.R. 25 =
Sta. 119+86.82 S.R. 67
2-D
See Detail Sheet № 336
Prop. 21° S-27
AUG-25-0718
P.I. Sta. 426+87.08 U.S.R. 25 -
Sta. 31+52.83 Blank Pike
P.I. Sta. 430+76.08 U.S.R. 25
Sta. 119+86.82 S.R. 67
12" F.T.
E-12 Pipe Removed See S.R. 67 Interchange
32° 43' 45"
68° 16' 45"
20° 35' 00"
432 N 21° 43' E
20.27'
P.I. Sta. 434+00
67.44' Lt.
Begin Flare 66 Lt.
End Flare 48 Lt. - 35' Lt.
AUG-25-0728
5" F.T.
E-12 Pipe Removed
AUG-25-0737
E-12 Pipe Removed
BEGIN
Sta. 426+87.08 U.S.R. 25 =
Sta. 31+52.83 Blank Pike
P.I. Sta. 5+10.35 =
Sta. 0+00 Cemetery Rd.
AUG-25-0720
1-D
See Detail Sheet № 93
Prop. Twin 30" S-27
See Detail Sheet № 337
AUG-25-0724
Sta. 430+98.0 53' Rt.
S.T. Sta. 17+56.82 (A)
Sta. 430+00 92' - 15" S-27 Pipe
C.S. Sta. 151+56.62 (A)
21° S-27
AUG-25-0717
Ramp "A"
Sta. 122+10.37 16' Rt.
Sta. 0+00 (A)
R/W Mon.
4-D
See Detail Sheet № 93
3-D
20 Sq. Yds. of Sod
Sta. 434+66 - 109' Rt. Begin
10'x6" I-3 Pipe Outlet - FL 893.7
6-D
Sta. 434+20
Sta. 433+00 - Roadside Farm Sign Pivot
Begin Flare
End Flare Sta. 434+50
65' - 15" S-27 Pipe
Sta. 434+83.18 Rt.
Abandon
5-D
R/W Fence
See Detail Sheet № 94
8-D
Sta. 439+00
66' - 15" S-27 pipe
20 Sq. Yds. of Sod
Sta. 439+70
R/W Fence
Sta. 430+54-10' Rt.
10'x6" I-3 Pipe Outlet
FL 809.2
9-D
End Flare
Sta. 439+70
R/W Fence
END
SHEET
E. S.R. 67
Cemetery Rd.
LIMITED ACCESS BOUNDRY
PHILLIP KOHLER & CLEOLA KOHLER
CLARENCE WEBER

BENCH MARK
B.M.#17 R.R. Spike in ϕ 150' Lt. of
Sta. 428+03
Elevation = 895.81

BENCH MARK
B.M.#18 R.R. Spike in Sapling 115'
Lt of Sta. 434+71
Elevation = 896.37

BENCH MARK
B.M.#19 R.R. Spike in base of 36"
Oak 262' Lt. of Sta. 438+56
Elevation 890.10

PROPOSED STRUCTURE AUG-25-0721
TYPE: Continuous Plate Girder with reinf. Conc. deck and reinf. Conc. Substructure
SPAN: 78'-112'-127'-76' c/l brg 48'-2"
ROADWAY: 49'-0" f/f 2'-0" Safety Curbs including median
LOAD FREQUENCY: CF-130-(51)
SKEW: 57°-16'-15" left forward.
WEARING SURFACE: 3/4" Monolithic Concrete.
APPROACH SLAB: AS-1-54 (25' long)
ALIGNMENT: Tangent.

Top Pavement S.R. 67
Overhead = 917.20

400' V.C.
P.C. Sta. 432+50
P.T. Sta. 436+50
P.I. Sta. 434+50
El. 893.67
-0.30%
+0.325%
900
895
890

PLAN & PROFILE STA. 425+00 TO STA. 440+00

MICROFILMED
DEC 29 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

51
466

AUGLAIZE COUNTY
AUG-25-5.05

12" Ash Capped Nail
26" Elm Capped Nail
Sta. 448+00
15" Elm Capped Nail

444+00 ℄ U.S.25 445+00
Hub Flush Hub Flush
Tacked Hub 100.0' 76.46 Tacked Hub
16" Thorn Cap. Nail
P.O.T. STA. 444+46.40

CLARENCE WEBER
R/W Fence
SHEET
Plug 101' Lt. with 0.1 Cu.Yd. of Conc. Class "E"
4" Ft.
5" Ft.
2-D
1-D
4" Ft. 2 Abandon
BEGIN
R/W Fence
Sta. 441+10 - 126' Rt. - 30 Sq. Yds. of Sod depress Sod 6" to form small channel down slope.
05-1
10' 44' 10'
440 441 442 443 444 445 446 447 N 21° 43'E 448 449 450 451 452 453 454 455
+50.21
+50.28
℄ Draw
Dumped Rock Fill see Sheet No. 415
Sta. 447+00 - 91' Lt. Begin 91' Lin. Ft. x 8' Wide Sod - (91 Sq. Yd.)
End D/W Tunnel
3-D
1-G
RIVER
Tacked Hub
8" Thorn Capped Nail
70.79'
30.21'
Daisy M. Katterhenry & Gust A. Katterhenry
Begin R/W Fence 136
5-D
Sta. 450+00
Prop. 36' of 24" L-1 Pipe
4 Cu. Yd. of Dumped Rock Fill
Tacked Hub
4-G
9-D
L-10 Sod
I-14 Paved Gutter Std Type I
Chicken House
Garage
Corn Crib
Barn
Shed
Water
Abandon
R/W Fence
SHEET
AUG-25-0759
See Detail Sheet No. 96
8-D
4.47'
107.54'
Place Dumped Rock Fill See Sheet No. 415
4 Cu. Yd. of Dumped Rock Fill
℄ Draw
Sq. Yds.
Dumped Rock Fill See Sheet No. 415
2-G
4-D
6-D
1-A
AUGLAIZE
Begin R/W Fence 103
Prop. 36" of 24"-1 Pipe
60 ℄ Dr. under Bridge
3-G
10-D
L-10 Sod
I-14 Paved Gutter Std Type I
See Sheet No. 37 for Details & Quantities
2-A
Prop 15" S-27 Pipe
See Detail Sheet No. 98
AUG-25-0767
R/W Fence
END
11-D
End R/W Fence 189
Daisy M. Katterhenry & Gust A. Katterhenry

Station 444+00 (S. Bound U.S.R 25)
TYPE: OS-2-A
SPAN: 44'
H = 3'
2 Signs 3'x 6'
4 Sign Supports: 3',3',9',9' from Beam Splice

BENCH MARK
B.M. #20 RR Spike in base of 12" Oak 100' Rt. of Sta. 445+76
Elevation = 896.59

CLARENCE WEBER

DRAINAGE AREA = 104.15 Sq. Mi.

BENCH MARK
B.M. #21 R.R. Spike in base of 28" Elm 81' Rt. of Sta. 450+63
Elevation = 884.04

895.66 895.82 895.96 896.14 896.31 896.47 896.55 896.62 896.69 896.76 896.82 896.87 896.92 896.96 897.00 897.03 897.06 897.06 897.10 897.11 897.12 897.12 897.12

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

52
466

AUGLAIZE COUNTY
AUG-25-5.05

Tacked Hub
U.S. 25 ℄
Hub Flush in Lane
Hub 455+33 ℄
Tacked Hub
P.O.T. STA. 455+20.23

N

DAISY M. KATTERHENRY & GUST A. KATTERHENRY

R/W Fence
SHEET
BEGIN
R/W Fence
LANE
Abandon

Sta. 466+00 - Place 27' x 6' x 2.5' of 1:10 Dumped Rock Fill for Drop outlet into Ditch (15 Cu.Yd.) Excavation under Item E.2

Capped Nail in Twin Elm
Cap Nail 12" Pignut
U.S. 25 ℄
Hub Sta. 469+34
P.O.T. ℄
Cap. Nail 6" maple
P.O.T. STA. 469+62.76

℄ Drive

AUG-25-0783
Sta. 463+49 Prop
54" S-27 Pipe
See Sheet No 338

455 456 457 458 459 460 461 N 21° 43' E 462 463 464 465 466 467 468 469 470

1-D 2-D 3-D 4-D

Sta. 461+00 - 82' Rt. Begin
155' x 8' Sod (155 Sq. Yd)

Sta. 464+00 - 90' Rt. Begin 200 Lin. Ft. x 9' Wide Sod - (200 Sq. Yd)

DAISY M. KATTERHENRY & GUST A. KATTERHENRY

DORTHY D. NEWCOMER & ROBERT D. NEWCOMER
R/W Fence
SHEET
110°-30'
END
R/W Fence
EDITH M. WINTZER ET. AL.

BENCH MARK
B.M #22 R.R. Spike in ϕ 278' Rt of Sta. 456+22
Elevation = 895.61

BENCH MARK
B.M #23 R.R. Spike in base of 36" Oak 247' Lt. of Sta. 463+00
Elevation = 896.86

BENCH MARK
B.M #24 R.R. Spike in base of 12" elm 125' Lt. of Sta. 469+03
Elevation = 899.63

897.12 897.12 897.12 897.12 897.12 897.13 897.15 897.17 897.20 897.23 897.27 897.32 897.37 897.43 897.50 897.57 897.65 897.73 897.82 897.92 898.12 898.32 898.52 898.72 898.92 899.12 899.32 899.52 899.72 899.92 900.12 900.32 900.52 900.72 900.92 901.12 901.32 901.52 901.72

400' V.C.
P.C. Sta. 456+50
P.T. Sta. 460+50
P.I. Sta. 458+50
El. 897.12
0.00%
+0.40%
900
895
890
885

895.67 895.17 894.87 894.77 895.27 895.67 895.77 893.01 892.46 892.36 894.06 896.26 898.76 899.96 900.31 900.21

455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470

PLAN & PROFILE STA. 455+00 TO STA. 470+00

FED. RD DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

53
466

AUGLAIZE COUNTY
AUG-25-5.05

ROBERT D. NEWCOMER & DOROTHY D. NEWCOMER

EDITH M. WINTZER, FREDERICK S. WINTZER & ALICE J. HECKMAN nee ALICE J. WINTZER

N

U.S. 25 ℄ Tacked Hub 100.0 479+00 100.0 ℄ Tacked Hub P.O.T. Tacked Hub

P.O.T. STA. 478+97.72

SHEET 1 OF 2 SHEETS

Begin R/W Fence

Flare Sta. 470+13.21

End Flare Sta 472+63.21

Sta 475+33 - 96' Lt Begin 10' of 8" I-3 Pipe Outlet; 21 Sq. Yd. Vol. of Sod Depress Sod 6" to form Channel

23 Cu. Yds of 1:10 Dumped Rock Fill

Interceptor Ditch

3-D

4-D

Gate 1' Gate

Begin Park Fence 478+13

End R/W Fence 478+13

Prop 1-4.7

Prop 1-4

12" Prop 1-2.7

15" Prop 1-2.7

1-4 Pipe

1-D

Extended Section if Roadside Park is built.

Prop 15" S-2.7 Pipe For Details See Sheet № 101 AUG-25-0797

R/W Fence

Abandon

12" Prop 1-3.7

15"-2 Pipe

Plug tile with 0.1 Cu.Yd. Class "E" Conc. Rt.

2-D

Sta 472+75 - Roadside Park Sign Plyn

End R/W Fence 100 Begin Park Fence 8' Rt. 7

For Roadside Park Details & Quantities See Sheet № 373, 374

EDITH M. WINTZER, FREDERICK S. WINTZER & ALICE J. HECKMAN nee ALICE J. WINTZER

BENCH MARK
B.M. #25 R.R. Spike in base of 30" Oak 297' Lt. of Sta. 477+38
Elevation 914.94

BENCH MARK
B.M. #26 R.R. Spike in base of 15" Oak 93' Rt. of Sta. 480+51
Elevation 918.53

106 Begin 9' Wide Sod

SECTION LINE

5-D

BEGIN

END

470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485

901.72 901.92 902.12 902.32 902.52 902.72 902.92 903.12 903.32 903.52 903.72 903.92 904.12 904.32 904.52 904.72 904.92 905.01 905.10 905.17 905.23 905.28 905.32 905.35 905.37 905.37 905.31 905.36 905.33 905.29 905.25 905.19 905.12 904.97 904.82 904.67 904.52 904.37 904.22

920 915 910 905 900

+0.40%

P.I. Sta. 480+00 El. 905.72

-0.30%

400' V.C.

℄ of I-4 Pipe

150' ℄ of I-4 899.11

904.21 906.21 908.21 908.88 907.78 907.18 910.28 913.48 917.62 917.92 917.32 914.84 911.04 907.34 906.80 Inv. 907.00 905.00

PLAN & PROFILE STA. 470+00 TO STA. 485+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS	
2	OHIO			

54
466

AUGLAIZE COUNTY
AUG-25-5.05

EDITH M. WINTZER, FREDERICK S. WINTZER & ALICE J. HECKMAN
nee ALICE J. WINTZER

COMBINATION PRIVY & STORAGE

See Detail Sheet No -375

T-71 Pavement

T-71 Pavement

60 Sq. Yds. of 9" wide Sod

Sta 488+25 Roadside Park Sign Elbow

Sta 490+10 Prop 30° S-27 Pipe

Prop. T-4 Pipe

For Details & Quantities See Sheet No 340

Sta 487+00 - 92' Rt. to Sta. 490+75 = 375.00 Lin. Ft. 9' wide Sod = 375 Sq. Yd.

BEGIN P.C. Sta. 485+22.74

+60' End 9' wide Sod

End Park Fence Begin R/W Fence

Capped Nail 12" Maple

51.02'

U.S. 252

62.32'

75.63'

Capped Nail 18" Elm

Capped Nail 15" Elm

P.C. Sta. 485+22.74

AUG-25-0883

AUG-25-0840
Prop 36" S-27 Pipe
Sta 493+76
See Detail Sheet No 341

EDITH M. WINTZER, ALICE J. HECKMAN

FREDERICK S. WINTZER & nee ALICE J. WINTZER

Abandon

Plug with 0.1 Cu.Yd. of Class "E" Conc.

Sta 496+80 End Flare

Sta 496+15 - 94' Rt; 10"x 8" Y 6' of 8" Pipe F/L 892.2 Plug main Branch of Y with 0.1 Cu.Yd. of Conc.

Sta 497+80.5 - 85' Rt. No 1-2A C.B. F/L Grate 891.9

P.T. Sta 498+09.41 = 669.90

Sta 497+36 - 66' Lt. To No 1-2A C.B. F/L Grate 893.0 ; F/L 15" 10° 891.4

Sta 498+00 Capped Nail

U.S. 252

Yellow Rivet & C.I.P.

Tacked Hub

Hub Flush

P.T. STA. 498+09.41

10"x 8" Ys ; 6' of 8" I-3 Pipe

Plug main Branch of Y with 0.1 Cu.Yd. of Conc.

Begin Sod 497+80

End Sod 499+00

Prop. 10" I-3 Pipe

Sta 499+25 - 25' Lt. End I-4 Pipe Underdrain

R/W Fence

T-4 Pipe

499 N 28° 09' E 500

AUG-25-0849

See Detail Sheet No 342

Outlet I-4 C.B.

R/W Fence

END

Abandon Lane

EDITH M. WINTZER et al

P.I. STA. 491+66.75
10"x 8" Ys ; 6' of 8" I-3 Pipe

Tacked Hub

Hub Flush

Hub on North Tangent

Plug main Branch of Y with 0.1 Cu.Yd. of Conc.

Begin 10" I-3 Pipe

Sta 490+25.18 Begin Flare

Sta 493+85.18 End Flare

Sta 493+79.5 92' Lt. No 1-2A C.B. F/L of 10" & 15" - 890.1

10' 10" I-3 Pipe F/L Grate 892.7

6' of 8" I-3 Pipe

10"x 8" T; 8"x 30° Curve

Sta 495+22 - 69' Lt. 8"x 30° Curve F/L = 892.4

Sta 495+04 - 68' Lt.; 10"x 8" Y 6' of 8" I-3 Pipe F/L 893.00 Plug with 0.1 Cu.Yd. of Conc.

Sta 493+79.5 92' Lt. No 1-2A C.B. F/L of 18" - 891.5

8' of 18" I-3 Pipe

Sta 493+80 End Flare

Sta 494+80 Begin Flare

F/L 15" Grate 891.5 106' Rt. No 1-2A C.B. F/L Grate 891.5

669.50

10"x 8" Ys ; 6' of 8" I-3 Pipe

Prop 10" I-3 Pipe

Prop. 10" I-3 Pipe

Prop. 10" I-3 Pipe

Prop. I-4

E-12 Pipe Removed 106' Lin. Ft.

Abandon

Abandon Lane

Abandon

Abandon

Abandon

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

55
466

AUGLAIZE COUNTY
AUG-25-5.05

ODESSA P. STINEBAUGH

OLIVER A. REAMS & FLORENCE B. REAMS

EDITH M. WINTZER, FREDERICK S. WINTZER & ALICE J. HECKMAN nee ALICE J. WINTZER

Tacked Hub — 512+88 U.S. 25 — 2119' — R.R. Spikes — 3109' — 134.22' — 44.39' — Tacked Hub — Tacked Hub

STA. 513+09.19 (℄ Hengstler Road)

SHEET

R/W Fence

Sta. 504+54 / 69' Lt. Begin 10' of 8" I-3 Pipe Outlet F/L 696.64

Sta. 504+75 - 88' Lt. Begin 425 Lin Ft × 9' Wide Sod (425 Sq Yd)

5-D

2-D

400 Lin. Ft. E-12 Pipe Removed 5' F.T.

333 Lin. Ft. E-12 Pipe Removed 5' F.T.

6-D

1-U

End R/W Fence ±01

Begin R/W Fence ±84

Prop. 1-4 Pipe Underdrain

500 501 502 503 504 505 N 28° 09' E 506 507 508 509 510 511 512 513 514 515

1-D

See Detail Sheet № L06 AUG-25-0854

4-D

7-D

AUG-25-0867

100

Prop. 1-4 Pipe Underdrain

Prop. 15" S-27 Pipe See Detail Sheet № 107

2-U

BEGIN

R/W Fence

Sta. 501+09± 90' Rt. Plug Existing with 0.1 Cu. Yd. Conc. Class "E"

Sta. 501+00 ~ 83' Rt. Begin 700 Lin. Ft. × 8' Wide Sod (700 Sq Yd)

Prop. 15" S-27 Pipe

3-D

EDITH M. WINTZER, FREDERICK S. WINTZER & ALICE J. HECKMAN

Sta. 506+00 Begin I-4 Pipe Underdrain

nee ALICE J. WINTZER

Sta. 513+09.19 U.S.R. 25 ×
Sta. 1+00 Hengstler Rd.

End R/W Fence ±23

±47 & Dr.

±40

62°-31'-00"

Begin R/W Fence ±14

SHEET

END

PROPOSED STRUCTURE

TYPE: Continuous steel beam with reinf. conc. deck and substructure.
SPANS: 56' - 70' - 70' - 56' c/c brgs.
ROADWAY: 24'-0" f/f 2'-0" Safety Curbs
LOAD FREQUENCY: CF = 30 (51)
SKEW: 27°-42' L.F.
WEARING SURFACE: ½" Mono. Conc.
APPR. SLABS: AS-1-54 (20' Long)
ALIGNMENT: Tangent

AUG-25-0877

BENCH MARK

B.M #30 R.R. Spike in base of 12" Elm 118' Lt. of Sta. 505+64
Elevation 900.56

BENCH MARK

B.M #31 R.R. Spike in ℄ 148' Lt. of Sta. 512+22
Elevation 921.63

900.39 900.49 900.62 900.76 900.93 901.11 901.32 901.55 901.80 902.32 902.84 903.36 903.88 904.40 904.92 905.44 905.96 906.48 907.00 907.52 908.04 908.56 909.08 909.60 910.12 910.64 911.16 911.42 911.66 911.90 912.14 912.36 912.58 912.79 912.99 913.19 913.37 913.54 913.72 913.88 914.05 914.16 914.32

Top of Pavement Hengstler Road Overhead ~ 932.35

24'

925 920 915 910 905 900 895

P.I. Sta. 500+00 Elev. 899.72

400' V.C.

P.T. Sta. 502+00

+1.04 %

F/L of I-4 - 51' Lt. Rt. 900.3
F/L of I-4 - 51' Lt. 899.5
Outlet F/L 699.0

F/L of I-4 - 51' Lt. & Rt. 901.3 ±

P.I. Sta. 513+00 Elev. 915.24

0.54 %

P.C. Sta. 511+00

Sta. 511+00 F/L of I-4 Pipe Underdrain 905.50

400' V.C.

515+00 F/L of I-4 Pipe Underdrain Elev. 900.76

P.T. Sta. 515+00

895.63 896.03 896.63 897.33 898.53 899.33 902.22 907.82 911.80 913.10 916.86 918.06 919.56 922.78 922.79 923.43

500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515

PLAN & PROFILE STA. 500+00 TO STA. 515+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

56
466

AUGLAIZE COUNTY
AUG-25-5.05

ODESSA P. STINEBAUGH

EDWIN J. METZGER & ANNA M. METZGER

EDWIN J. METZGER & ANNA M. METZGER

MILLIE SHAW

1-10 Dumped Rock Fill 26 Cu.Yds.

R/W Fence

℄ of Interceptor Ditch

Sta. 520+27 - 65' Lt. Begin 10' of 8" 1-3 Pipe Outlet F/L 925.00; 2.5 Sq. Yds. of Sod, depress 6" to form channel

5" F.T.

4" F.T.

Prop. 1-4 Pipe Underdrain

Remove under E-1

Sta. 524+00 51' Lt. End 1-4 Pipe Underdrain

Sta. 524+00 - 51' Rt. End 1-4 Pipe Underdrain.

P.O.T. STA. 523+05.70

U.S.25

100.0'

71.45'

1000'

Tacked Hubs along Fence

Sta. 530+00 - 78' Lt. - 10' of 8" 1-3 Pipe Outlet F/L 917.5

6" F.T.

Prop. 10' of 8" 1-3 Pipe

18 Sq. Yds. of Sod. Depress 6" to form Channel

Old Fence Posts

Gr. Post

SHEET

SHEET

BEGIN

END

See Detail Sheet No. 109 AUG-25-0886

100'

62° 34'

N 28° 09' E

End

Prop. 1-4 Pipe Underdrain

R/W Fence

Sta. 516+00 - 70' Rt. Begin 100 Lin. Ft. 9' Wide Sod (100 Sq. Yds.)

8" Conc.

15" S-27 Pipe

66'

(Water) Pond

This pond shall not be disturbed by construction.

ODESSA P. STINEBAUGH

BENCH MARK
B.M. #32 R.R. Spike in base of 24" Oak 106' Rt. of Sta. 518+70
Elevation 923.90

BENCH MARK
B.M. #33 R.R. Spike in base of 13" hickory 238' Lt. of Sta. 526+90
Elevation 928.38

1-D 2-D 3-D 4-D 5-D 6-D 1-U 2-U

515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530

914.32 914.59 914.66 914.13 915.40 915.67 915.94 916.21 916.48 916.75 917.02 917.29 917.56 917.69 917.60 917.90 918.00 918.06 918.13 918.18 918.22 918.24 918.25 918.26 918.24 918.20 918.16 918.11 918.04 917.89 917.74 917.59 917.44 917.29 917.14 916.99 916.84 916.69 916.54

935 930 925 920 915 910

P.I. Sta. 523+00 Elev. 916.64

0.54%

-0.30%

F/L of 1-4 Pipe Underdrain Lt. & Rt.

P.C. Sta. 521+00

F/L of 1-4 Pipe Underdrain 51' Lt. & Rt. 912.00

400' V.C.

P.T. Sta. 525+00

F/L of 1-4 Pipe Underdrain 51' Lt. & Rt. 913.00

923.49 924.99 924.79 924.79 926.13 927.93 923.29 933.69 934.19 933.39 931.19 929.29 927.01 925.11 923.41 920.41

515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530

PLAN & PROFILE STA. 515+00 TO STA. 530+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

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466

AUGLAIZE COUNTY
AUG-25-5.05

EDWIN A. METGER & ANNA M. METZGER

Capped Nail ~ 14" Elm
Capped Nail ~ 17" Ash
Capped Nail ~ 15" Oak
U.S. 25 ℄
P.O.T. STA. 532+69.80

1-10 Dumped Rock Fill
21 Cu. Yds.

Sta. 535+37 - 37.10' Lt. Beain ℄
10' of 8"F.T. Pipe outlet. f/c/
f/l 915.11

MILLIE SHAW

Capped Nail 12" Beech
Capped Nail
Capped Nail 12" Oak
U.S. 25 ℄
P.O.T. STA. 540+18.24

SECTION LINE

24" Oak
Capped Nail
24" Elm
Capped Nail 12" Twin Oak
U.S. 25
P.O.T. STA. 542+61.63

Sta. 542+35 Roadside Art Sign Plyon

R/W Fence ℄
Intercepter Ditch ℄
Abandon
6" F.T.
3" F.T.
R/W Fence ℄
BEGIN
SHEET
SHEET
END

Plug Exist F.T. - 76 Lf. with 0.1 Cu.Yd. of Conc. Class "E"

Remove under E-1

E-12 Pipe Removed
380' Lin. Ft.
10" F.T.

AUG-25-0917
Sta. 534+00 Rt. Prop. 15"x70'
S-27 Pipe for Roadway Culverts.
See Sheet No. 11

AUG-25-0930
Sta. 541+00
Prop. Triple 27" S-27 Pipe
for details See Sheet No. 143

Sta. 544 +05 Rt. Prop. 15"x 88'
S-27 Pipe for Roadway Culverts
See Sheet No. 113

AUG-25-0936

Sta. 537+33 - 82' Rt. Plug with 0.1 Cu. Yd. Conc. Class "E"

MILLIE SHAW

Plug with 0.1 Cu. Yd. Concrete Class "E"

W.D. BRENTLINGER

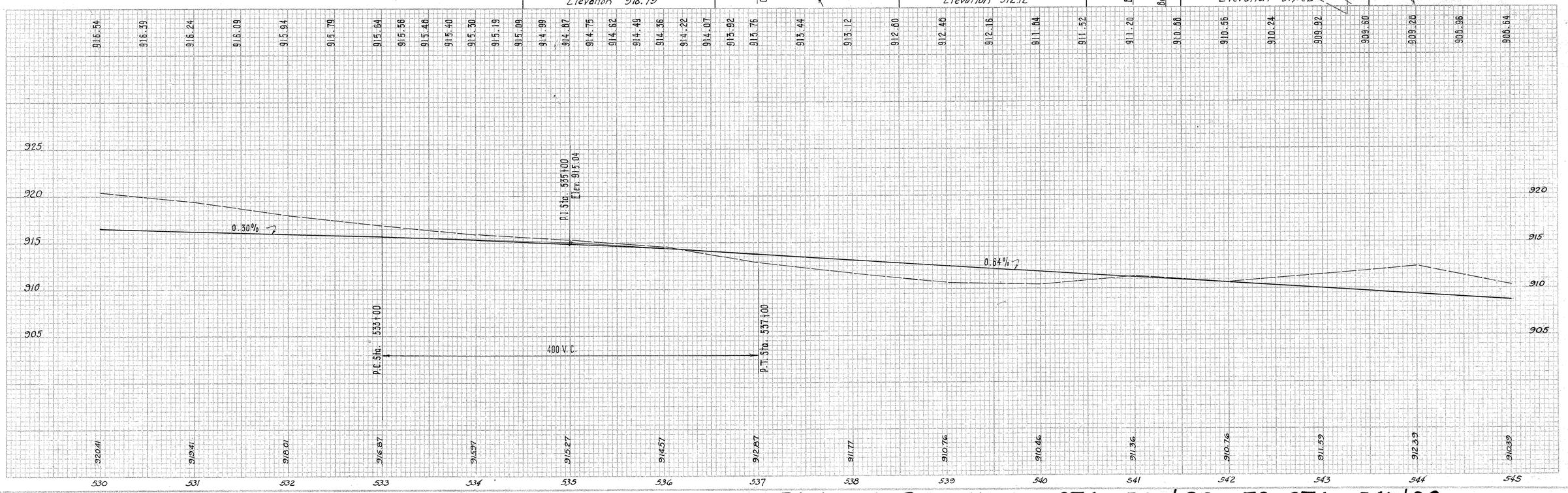
End R/W Fence 101

Begin R/W Fence 137

BENCH MARK
B.M #34 R.R. Spike in base of 14" Elm
100' Lt. of Sta. 534+50
Elevation 918.79

BENCH MARK
B.M #35 R.R. Spike in base of 24" Oak
128' Rt. of Sta. 538+08
Elevation 912.12

BENCH MARK
B.M #36 R.R. Spike in base of 10" Elm
89' Lt. of Sta. 542+77
Elevation 915.22



PLAN & PROFILE STA. 530+00 TO STA. 545+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

58
466

AUGLAIZE COUNTY
AUG-25-5.05

J. T. SHAFER

W. D. BRENTLINGER

MARY B. LA BOUNTY

C. BENJAMIN FESSLER & CLARA FESSLER

Sta. 547+00 ~ 85' Lt. Begin 800 Lin. Ft. ×9' Wide Sod (300 Sq. Yds.)

Sta. 547+00 ~ 70' Rt. Begin 300 Lin. Ft. ×9' Wide Sod (300 Sq. Yds.)

Sta. 550+37 ~ 61' Lt. 10"×8" Wye Plug one end of Main branch Meet Exist. F/L Elev. 897.10

Sta. 552+89 ~ 94' Rt. 1-6 № 1-2 A C.B. F/L Grate 896.8 F/L 18" 893.00

Sta. 552+89 ~ 85' Lt. 1-6 № 1-2 A C.B. F/L Grate 897.8 F/L 12" 1-2, & 10" 4-6' 1-3 - 885.50

Sta. 552+89 ~ 175' Rt. 16" Wye 24"×16" Wye F/L 892.35

Sta. 553+10 Prop. Triple 42"×164" S-27 Pipes for Roadway Culverts. See Sheet No. 114

Sta. 553+10 Prop. 1-6 No. 1-4 Catch Basin. See Sheet № 114

Sta. 554+34 ~ 94' Rt. 1-6 № 1-3 C.B. F/L Grate 897.5 F/L 24" 892.09

Sta. 555+65 ~ 94' Rt. 1-6 № 1-3 C.B. F/L Grate 897.5 F/L 24" 893.21

Sta. 556+53 ~ 96' Lt. 12"×30° Curve Meet Exist. F/L 894.6±

Sta. 556+53 ~ 24 ~ 96' Lt. 1-6 № 1-3 C.B. F/L Grate 898.0 ; F/L 24" 893.05

Sta. 557+65 Abandon Existing C.B.

Sta. 559+03 ~ 96' Lt. 1-6 № 1-3 C.B. F/L Grate 898.0 ; F/L 24" 893.40

AUG-25-0953

AUG-25-0966
Sta. 560+00 Rt. Prop. 15"×66' S-27 Pipe for Roadway Culverts See Sheet No. 116

BENCH MARK
B.M#37 R.R. Spike in base of 18" Hickory 108' Rt. of Sta. 546+28
Elevation 908.63

BENCH MARK
B.M#38 R.R. Spike in base of triple elm 148' Rt. of Sta. 558+55
Elevation 903.97

Abandon
8' of 8" 1-3 Pipe
10" 1-3 Pipe
10"×8" Wye
8" of 8" 1-3 Pipe
10"×8" Tee
16' of 8" 1-3 Pipe
Prop. 12" 1-2 Pipe Under Pav't
Prop. 18" 1-3 Pipe
16' of 24" 1-3 Pipe
Prop. 24" 1-2 Pipe Under Pav't
Prop. Triple 42"×164" S-27 Pipes for Roadway Culverts.
14' of 12" 1-3 Pipe
Prop. 12" 1-3
10' of 24" 1-3 Pipe
E-12 Pipe Removed
4'×4' C.B. Conc. Slab
Tack Hub
Hub Flush
P.O.T. Sta. 557+65.00
R/W Fence
SHEET
BEGIN
END
SECTION LINE
1-D
2-D
3-D
4-D
5-D
6-D
7-D
8-D
1-A

400' V.C.
P.C. Sta. 548+00
P.T. Sta. 552+00
P.I. Sta. 550+00 Elev. 905.44
- 0.64%
+ 0.124%
910.39
908.89
909.36
907.06
903.26
899.36
898.66
898.06
897.86
897.96
897.76
898.16
898.36
898.26
898.96
899.36

PLAN & PROFILE STA. 545+00 TO STA. 560+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

59
466

AUGLAIZE COUNTY
AUG-25-5.05

Slope Earth Island ½"/1' from Center to Pavt Edge
Slope Pavement 3/16"/1' from Inside Edge to outer Edge.
Elev. of Outside Edge of Turnaround 901.8

N

U.S. 25 ℄ — Hub Flush — P.O.T. Sta. 561+59.15

8" Elm — 10" Oak — 20" FT. — 10" FT.

MARY LA BOUNTY

R/W Fence — SHEET — BEGIN — Brush — Abandon — 27°23' — 6" FT.

Sta. 561+40± 10.6' Rt. Plug
Exist Tile with 0.1 Cu. Yd. Conc.

1-D

560 561 562 563 564 565 566 567 568 N 28° 09E 569 570 571 572 573 574 575

Sta. 567+27±-109' Lt. Plug
Ex. Tile with 0.1 Cu. Yds. of Conc.

3-D

C. BENJAMIN FESSLER ℄ CLARA A. FESSLER

Capped Nail — 52.13' — U.S.R. 25 — R.R. Spike on Seitz Rd. — 46.36' — 15.68' — Capped Nail — Capped Nail

P.O.T. Sta. 572+66.07

18" FT. — 8" FT. — 6" FT. — 5" FT. — 10' 3.6 — 40 R — 20' — 1-15

1-G — 1-A

Sta. 573+37.16' Lt.
P.I. Sta. 574+26.8
Elev. 898.5
Grade 898.6

4' of 8" I-3 Pipe — 8" x 8" Tee Fence R/W — SHEET

Prop. 8" I-3 — Pipe Outlet — Abandon — 7-D

Sta. 570+73 - 97 Rt. 10' of 8" I-3 Pipe Outlet ℄ 900.0±

4-D — 5-D

Sta. 572+66.07 U.S.R. 25 = Sta. 13+00 Seitz Rd.

Sta. 572+12 - 97 Rt. 10' of 8" I-3 Pipe Outlet ℄ 900.0±

Abandon — 5" FT. — 8" FT.

Sta. 566+60± 120' Rt. 10' of 8" I-3 Pipe Outlet ℄ 904.54 ; 20 Sq. Yds. of Sod

2-D

C. BENJAMIN FESSLER ℄ CLARA A. FESSLER

BENCH MARK
B.M #39 R.R. Spike in base of 24" Elm
157' Lt of Sta 564+69
. Elevation 901.54

BENCH MARK
B.M #40 R.R. Spike in base of ℄
122' Lt. of Sta. 571+85
Elevation 901.38

6-D

61° 26' 30" — Prop. 8" Stub — Abandon — Dr. — R/W Fence — R/W Fence — END

Ex. 12" — 2-SW F-R&S — Prop. 12" I-3 under Dirt Appr. — 4 of 8" I-3 Pipe — 6" I-3 Pipe

Sta. 574+63.10.5 Rt. 8" ℄ 901.5 ; R. Grade 901.6

Sta. 574+16.16 Rt. Curve

SEE SEITZ-HOLDEN CONNECTION

906.66 906.74 906.80 906.87 906.93 906.99 907.05 907.11 907.18 907.21 907.23 907.24 907.25 907.25 907.24 907.23 907.21 907.16 907.15 907.12 907.07 907.01 906.96 906.90 906.82 906.67 906.52 906.37 906.22 906.07 905.92 905.77 905.62 905.47 905.32 905.17 905.02 904.87 904.72 902.5

910 905 900 895

P.I. Sta. 566+00 907.42

+ 0.124%

- 0.30%

P.C. Sta. 564+00

400' V.C.

P.T. Sta. 568+00

902.5

839.38 900.08 901.68 903.48 904.58 905.01 905.11 903.81 903.41 902.81 902.01 902.01 902.13 901.03 900.73

560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575

PLAN & PROFILE STA. 560+00 TO STA. 575+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

60
466

AUGLAIZE COUNTY
AUG-25-5.05

N

IDA BURDEN

LELA WHEELER

18" ET.

15" ET.

12" ET.

6" ET.

SHEET

R/W Fence

BEGIN

END

Sta. 579+97 - 79' Lt. 1-8 No 1-2A C.B. ft. 18" & 8" 696.30 ft. Grate 900.2

Sta. 580+30 - 79' Lt. 1-8 No 1-3 C.B. ft. 24" & 8" 696.37

Sta. 581+45 - 78' Lt. 1-5 8" x 45° Curve

Sta. 588+06 - 79' Lt. 1-8 No 1-2A C.B. ft. 15" 696.70; ft. Grate 902.00

Sta. 587+00 Prop. Twin 27'x 15'-3" Pipes for Roadway Culverts. See Sheet No 120 AUG-25-1017

Prop. 1-8 No 1-4 C.B. 135

Prop. 8" 1-3 Pipe

10' of 24" 1-3 Pipe

Plug Ex. tile 87' Lt. with 0.1 Cu.Yd. of Conc.

10' of 18" 1-3 Pipe

E-12 Pipe Removed

Prop. 4' of 15" 1-3 Pipe

Prop. 24" 1-2 Under Pav't

Prop. 18" 1-2 Under Pav't

Prop. 15" 1-2 Under Pav't

Note: All Ex 18" Removal shall be included in Item 1-2 - 24" under Pav't.

AUG-25-0996 See Detail Sheet No 118

Sta. 576+00 88' Rt. 72' S 27 Pipe for Roadway Culverts

See Sheet No 357 for Details

Sta. 579+03 - 165' Rt. 1-8 No 1-2 A C. B. ft. 8" 699.3 ; ft. Grate - 900.6

4' of 8" 1-3 Pipe

Seitz-Holden Connection

Sta. 582+77 - 167' Rt 1-8 No 1-2 A C.B. ft. 8" 696.75 ; ft. Grate 900.5

4' of 8" 1-3 Pipe

Sta. 585+77 - 167' Rt. 1-8 No 1-2 A C.B ; ft. 18" & 8" 697.10 F/L Grate 901.00

Sta. 586+60 - 167' Rt. 1-8 No 1-3 C.B. ft. 15" & 24" 697.20 ; ft. Grate 901.0

10' of 18" 1-3 Pipe

Plug Ex. tile 170' Rt. with 0.1 Cu.Yds. of Conc.

BENCH MARK
B.M # 41 R.R. Spike in fence post 96' Lt. of Sta. 583+03
Elevation 902.11

BENCH MARK
B.M # 42 R.R. Spike in fence post 136' Rt. of Sta. 588+55
Elevation 902.90

575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590

2+00(S-H) 3+00(S-H) 4+00(S-H) 5+00(S-H) 6+00(S-H) 7+00(S-H) 8+00(SH) 9+00(S-H) 10+00(S-H) 11+00(S-H) 12+00(S-H) 13+00(S-H) 14+00(S-H) 15+00(S-H) 16+00(S-H)

904.72 904.64 904.59 904.54 904.50 904.46 904.44 904.43 904.42 904.45 904.44 904.47 904.50 904.54 904.59 904.65 904.73 904.88 905.05 905.18 905.33 905.48 905.64 905.79 905.94 906.09 906.24 906.39 906.54 906.70 906.85 907.00 907.15 907.30 907.45 907.60 907.76 907.91 908.06

400' V.C.

P.C. Sta. 575+00

P.T. Sta. 579+00

P.I. Sta. 577+00 Elev. 904.12

0.30%

+0.30%

910 905 900 895

900.73 | 901.300.73 901.300.63 901.294.300.73 | 900.78 | 900.93 | 901.13 | 901.22 | 901.42 | 901.12 | 901.02 | 901.22 | 901.45 | 901.85 | 902.45 | 902.25 | 902.65 | 139.903.45 | 902.85 | 903.06

PLAN & PROFILE STA. 575+00 TO STA. 590+00

MICROFILMED
DEC 29 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

61
466

AUGLAIZE COUNTY
AUG-25-5.05

N

LELA WHEELER

L. A. BOUNDRY
R/W Fence
SHEET
BEGIN
R/W Fence
L.A. BOUNDRY
LANE Abandon
2- 8"x 30° Curves
Prop. 8" I-3 Pipe
Sta. 594+00 Prop. 30" S-27 Pipe
1-D
See Detail Sheet No. 121 AUG-25-1030
Gates
2-D
Sta. 596+65 - 167' Rt. I-8 No 1-3 C.B. ft 24" 898.60 ft Grate 902.00
10' of 24" I-3 Pipe
T.S. Sta. 231+66.22 (S-H)
LELA WHEELER
15" F.T.
16" F.T.
Abandon
Sta. 599+82 - 120' Rt. I-8 No 1-3 C.B. ft 24" & 12" 899.00 ; ft Grate 902.10
3-D
12" I-2 Pipe Under Pav't.
Prop. 24" I-2 Pipe under Pav't.
Sta. 599+75 Lt. I-8 No 2 A.C.B. ft 8" & 12" 900.00 ; ft Grate 903.7
4-D
Sta. 599+82 - 82' Lt. 902.55 ft
Shed
Barn
Corn Crib
Gate
Hse
Fence
Abandon
End R/W Fence 146
U.S. 25
RR Spike (Holden Rd.)
P.O.T. Sta. 602+87.54
Begin R/W Fence 103
Prop. 8" I-3 Pipe
Gate
4"x 8"x 3" Tee
End
Abandon
AUG-25-1043
Prop. 15" S-27
5-D
See Detail Sheet No. 122
Sta. 602+87.54 U.S.R 25 - Sta. 15+00 Holden Rd.
Abandon
10-D
Prop. 24" I-3 Pipe for Storm Sewer
7-D
End R/W Fence 165
Prop. 16" I-2 Under Pav't.
Prop. 16" I-3 Pipe
6-D
E-12 Pipe Removed
Prop. 16" I-3 Pipe
8-D
Sta. 602+89 - 140' Rt. I-8 No 1-2A.C.B. ft 16" 899.44 ft Grate 902.60
I-4 as per Plan
Prop. 15" I-3 Pipe
Sta. 599+43 - 183' Rt. I-8 No 1-2 A.C.B. ft 15" & 16" 898.95 ; ft Grate 902.5
BENCH MARK
B.M. #43 R.R. Spike in fence post 119' Lt of Sta. 598+26
Elevation 906.41
BENCH MARK
B.M. #44 R.R. Spike in base of ø 99' Lt of Sta. 602+09
Elevation 905.13
14-D
Sta. 603+85 - 73' Lt. 901.22
8 of 8" T-3 Pipe
10" x 8" Tee
Prop. 10" I-3 Pipe
Prop. 8" I-3
10' of 8" I-3
EOR 14+65
11-D
AUG-25-1049
E-12 Pipe Removed
13-D
Ex. M.H.
Sta. 604+00 Prop Twin 21" S-27 Pipe See Detail Sheet No. 123
10' of 18" I-3 Pipe
12-D
Abandon
Prop. 24" I-3 Pipe
END
Begin R/W Fence 29
Sta. 604+19 - 106' Rt. I-8 No 1-2A.C.B. ft 16" 898.63 ft Grate 902.60
9-D
Crib Wall See Sheet No. 346
1-U

Top of Pavement Buckland - Bingville - Holden Road 927.24
24'

P.I. Sta. 595+00 909.57
P.C. Sta. 593+00
P.T. Sta. 597+00
P.C. Sta. 601+00
P.I. Sta. 605+00 Elev. 907.97
P.T. Sta. 605+00
400' V.C.
400' V.C.
+0.303%
0.20%
0.30%

PROPOSED STRUCTURE
TYPE: Continuous Steel beams with reinf. Concrete deck and substructure
SPANS: 56'- 70'- 70'- 56' c/c brgs.
ROADWAY: 24'-0" f/f 2'-0" Safety curbs
LOAD FREQUENCY: CF = 30 (51)
SKEW: 27°-42' left forward
WEARING SURFACE: ½" Monolithic Conc.
APPROACH SLABS: AS-1-54 (20' long)
ALIGNMENT: Tangent

PLAN & PROFILE STA. 590+00 TO STA. 605+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

62
466

AUGLAIZE COUNTY
AUG-25-5.05

N

ALEXANDER H. SCHWEITZER

GERTRUDE SMITH

GERTRUDE SMITH

ALEXANDER H. SCHWEITZER

ALMA ROHRBACKER

Tack Hub Flush — Tack Hub
℄ U.S. 25 7
100.0'
Tack Hub
100.0'
5333'
15" Elm Cap Nail
P.O.T. Sta 619+35.47

2-D — Sta. 605+75 - 77' Lt. 1-6 No 1:2 A.C.B. ℄ Grate ± 903.50; ℄ 18"×10"-900.50 Connect Exist. Tile with 4' of 15" Pipe

R/W Fence
Prop. 10" 1-3 Pipe

12" F.T.

5-D — See Detail Sheet № 123 AUG-25-1053

Sta. 606+00 Prop Twin 24" S-27 Pipe

7-D — See Detail Sheet № 124 AUG-25-1062

Sta. 611+00 Prop 30" S-27 Pipe

End — Abandon — End — Abandon

612 N 28° 09' E

8-D — See Detail Sheet № 125 AUG-25-1078

Sta. 618+00 Prop 30" S-27 Pipe

R/W Fence

SHEET

E-12 Pipe Removed — 1-D

Prop. 18" 1-2 Under Pav't. Class "A" — 3-D

BEGIN

Prop. 24" 1-3 Pipe R/W Fence — 4-D

Prop. 18" 1-3 Pipe

6" F.T.

6-D

Sta. 607+69 ℄ 89' Rt. 16"×8" Tee ℄ 8' of 8" 1-3 Pipe to Connect Ex. 6" F.T.

Sta. 608+43 - 90' Rt. 1-8 No 1:2 A.C.B. ℄ Grate 903.0; ℄ 18" = 900.21 Connect Ex. 12" F.T. with 4'of 15" 1-3 Pipe

15" F.T.

Sta. 605+75 - 66' Rt. 1-8 No 1:2 A.C.B. ℄ Grate 902.7; ℄ 18"&24"-899.76

12" F.T.

6" F.T.

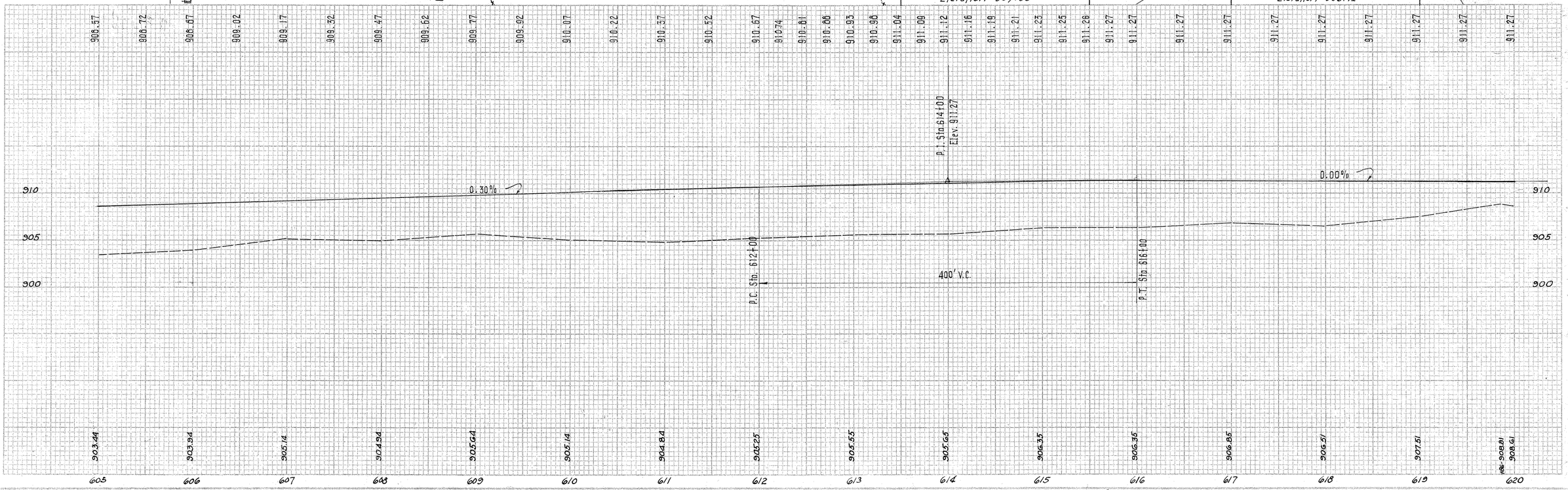
LANE

16' Gate — Gate

END

BENCH MARK
B.M. # 45 R.R. Spike in base of 16" hickory
300' Rt of Sta. 613+50
Elevation 905.90

BENCH MARK
B.M. # 46 R.R. Spike in base of 12" hickory
134' Rt. of Sta. 617+95
Elevation 906.74



PLAN & PROFILE STA. 605+00 TO STA. 620+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

63
466

AUGLAIZE COUNTY
AUG-25-5.05

GERTRUDE SMITH

ALMA ROHRBACKER

N

R/W Fence

BEGIN SHEET

END SHEET

R.R. Spike in Freymouth Rd. ℄ U.S.R. 25

Slope Earth Islands on Turn arounds ¼"/1' from center to Pav't. Edge; Slope Pavement 3/16"/1' from inside Edge to outer Edge

Elev. of Outside Edge of Turnaround 910.10

P.O.T. STA. 632+82.55

Sta. 627+00 ℄ Prop. I-D No. 1-2-A Catch Basin. See Sheet No.

Sta. 628+12 - 76' Lt. I-B No 1-2A C.B. ℄ 8" I-2 906.40 C.B. ℄ Grate 908.70 4' of 8" I3 Pipe

4" Conc. Tile

Prop. 8" I-2 Storm Sewer under Pav't. Class 'A'

AUG-25-1093 Sta. 627+00 Prop. 15"x 78" S-27 Pipe For Roadway Culverts. See Sheet No. 127

Sta. 628+94 - 79 Rt. End 8" I-2 Pipe Under Pav't ℄ 905.30 S-27 R.C.4 Endwall

Plug Ex. 4" Tile with Oil Cu. Yd. Conc. Class 'E' 95 Rt.

Sta. 632+82.54 U.S.R. 25 Sta. 13+00 Freymouth Rd.

Sta. 111+15 30' Lt.

Prop 115'- 8" I-3 Under Pav't. Sta 632+86 - 70' Lt.

I-B No 1-2A C.B. ℄ 8" 905.50 F/L Grate 906.00

Prop. 8" I-3 Pipe

Abandon 4" F.I.T.

AUG-25-1108 Sta. 635+00 Prop 15" S-27 See Detail Sheet No. 126

Abandon

Remove for Storage

Note: No Ditch shall be cut through Freymouth Rd. Fill Lt. or Rt.

Sta. 141+89 30' Rt.

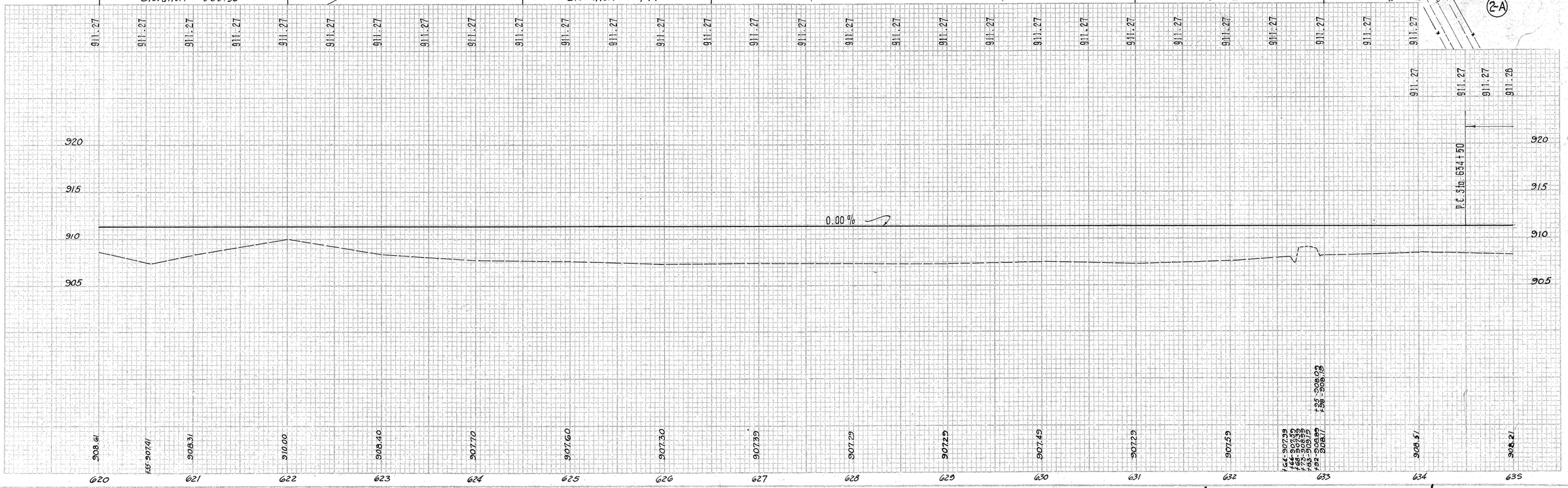
See Note above

Elev. of Outside Edge of Turnaround 908.50

BENCH MARK
B.M.#47 R.R. Spike in base of 22" ash 100' Rt. of Sta. 621+78
Elevation 909.38

BENCH MARK
B.M.#48 R.R. Spike in base of 40" Maple 91' Rt. of Sta. 625+76
Elevation 907.77

BENCH MARK
B.M.#49 R.R. Spike in base of 9" 163' Lt. of Sta. 632+12
Elevation 910.09



PLAN & PROFILE STA. 620+00 TO STA. 635+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

64
466

AUGLAIZE COUNTY
AUG-25-5.05

CURVE DATA

P.I. Sta. 651+14.45
Δ = 27° 14' Lt
D = 1° 00'
T = 1,387.90
L = 2723.33
E = 165.70
R = 5729.58
P.C. Sta. 637+26.55
P.T. Sta 664+49.88 (Back) = Sta 660+47.66 (Ahead)

N

Cap Nail in Fence Post

Tack Hub — Tack Hub — Tack Hub Flush

℄ U.S. 25

P.C. Sta. 637+26.55
Sta. 638+10 - 107' Lt. Meet Exist Tile
Rt. 8" 1-3 & Ex. 4" 905.28

73' Lt. 1-8 Nº 1-2A C.B. Rt. 8" 1-3 906.00 F.T. with 4' of 8" 1-3 Pipe

15' Lane — LANE

R/W Fence Prop. 8" 1-3

Sta. 636+23 Rt. Grate 907.00 Connect both Ex. 5" 8" 1-3 each

Prop. 8" 1-3 Pipe

℄ Gate

6" F.T. — 4" F.T. — 6" F.T.

SHEET

Abandon — 4" F.T.

1-D — 2-D — 3-D — 4-D — 5-D — 6-D — 7-D

End

Abandon — Abandon

635 — 636 — 637 — 638 — 639 — 640 — 641 — 642 — 643 — 644 — 645 — 646 — 647 — 648 — 649 — 650

BEGIN

Prop. 8" 1-2 Class "A" Pipe Under Pav't.

Abandon

Sta. 641+06.5 - 77' Lt. 1-6 Nº 1-2 A C.B. 4' of 8" 1-3 Pipe: Rt. 8" 904.80 Rt. Grate = 907.00

Sta. 643+35 - 60' Lt. 1-6 Nº 1-2 A C.B. Rt. 8" 905.60; Rt. Grate 907.00 4' of 8" 1-3 Pipe

See Detail Sheet Nº 130 AUG-25-1127

Sta. 645+30 - 65' Lt. 1-6 Nº 1-2 A C.B. Grate 4' of 8" 1-3 Pipe E.O. 905.50 906.6

GEORGE J. FREYMUTH & RUTH FREYMUTH

R/W Fence

SHEET

Abandon — Abandon

4" F.T. — 4" F.T.

Prop. 8" 1-2 Under Pav't. — Prop. 8" 1-2 Under Pav't.

Prop. 1-4 Pipe Underdrain

Prop Twin 24" 5-27 Pipe

END

R/W Fence

Sta. 636+23 - 23' Rt. Begin 1-4 Pipe Underdrain; Outlet in C.B. on Lt.

R/W Fence

GEORGE J. FREYMUTH

6" F.T. — 4" F.T.

To Remain in Place

Sta. 640+00 - 82' Rt. 1-6 Nº 1-2 A.C.B. 4' of 8" 1-3 Pipe Rt. 8" 905.07 Rt. Grate = 906.60

Sta. 643+43 - 82' Rt. 1-6 Nº 1-2 A.C.B. Rt. 8" - 906.2 Rt. Grate 907.5; 4'- 8" 1-3 Pipe

Sta. 644+90 - 23' Rt. End 1-4 Pipe Underdrain 645+18 Begin 1-4 Pipe Underdrain 23' Rt.

Sta. 645+92 - 85' Rt. 1-6 Nº 1-2 A.C.B. Rt. 8" - 906.20 Rt. Grate = 907.5 4'- 8" 1-3 Pipe

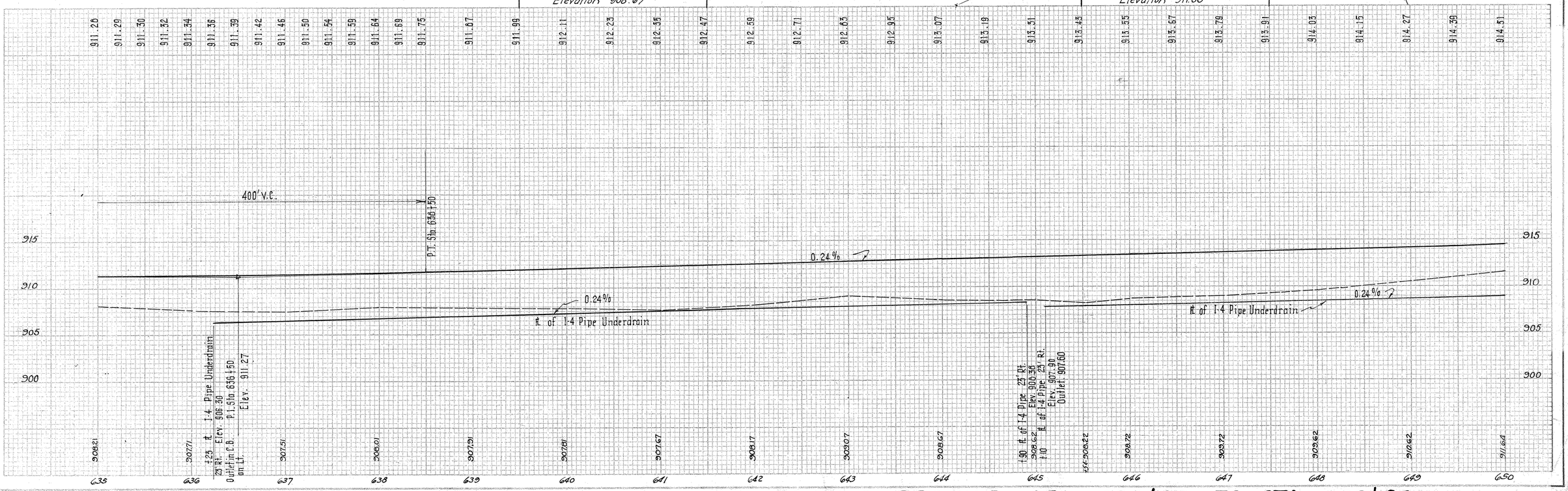
Conc. Post

DELBERT M. STEVELY AKA DELBERT STEVELY

Sta. 647+92 - 95' Rt. Begin 10' of 18" 1-3 Pipe Outlet Rt. 908.2±

BENCH MARK
B.M. #50 R.R. Spike in base of 24" Hickory
230' Lt. of Sta. 640+23
Elevation 908.65

BENCH MARK
B.M. #51 R.R. Spike in base of 36" Elm
197' Rt of Sta. 645+42
Elevation 911.00



PLAN & PROFILE STA. 635+00 TO STA. 650+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

65
466

AUGLAIZE COUNTY
AUG-25-5.05

P.O.S.T. Tacked Hub
265.54'
P.O.S.T. Tacked Hub
269.93'
Tacked Hub
Hub Flush
P.O.S.T. Tacked Hub
Tacked Hub North Tang.
Tacked Hub
P.I. Sta. 651+14.45

B.W. SHEELY & PAULINE SHEELY

GEORGE J. FREYMUTH & RUTH FREYMUTH

DELBERT M. STEVELY A.K.A. DELBERT STEVELY

OPAL L. MILLER

OPAL L. MILLER

SECTION LINE

BEGIN SHEET

END SHEET

R/W Fence

4" F.T.

Abandon

End

Cone Post

103°10' Tangent to Curve

76°30' To Tangent of Curve

90°58' To Tangent of Curve

90° 58'

Prop. 1-4 Pipe Underdrain

1-A

1-D

2-D

3-D

4-D

5-D

6-D

1-U

Sta. 650+93 - 83' Rt. Begin 10' of 8" 1:3 Pipe Outlet ft 908.65

Sta. 652+85 - 80' Rt. Begin 10' of 8" 1:3 Pipe Outlet ft 910.0±

Sta. 653+42 - 76' Rt. Begin 10' of 8" 1:3 Pipe Outlet ft 911.0±

Sta. 654+65 - 75' Rt. Begin 20' of 8" 1:3 Pipe Outlet

Sta. 656+64 - 73' Rt. Begin 10' of 8" 1:3 Pipe Outlet ft 912.30

AUG-25-1103 Sta. 664+00 Rt. Prop. 15" x 70' S-27 Pipe For Roxy Culv. Sheet No. 1 of 3 Sheets

CURVE DATA

P.I. Sta. 651+14.45
Δ = 27°-14'Lt.
D = 1° 00'
T = 1387.90
L = 2723.33
E = 165.70
R = 5729.58
P.C. Sta. 637+26.55
P.T. Sta. 664+49.88 (Back) = Sta. 660+47.66 (Ahead)

P.T. STA. 664+49.88 (Back)
STA. 660+47.66 (Ahead)

P.T. Sta. 664+49.88 (Back) = Sta. 660+47.66 (Ahead)

All distances by stadia.

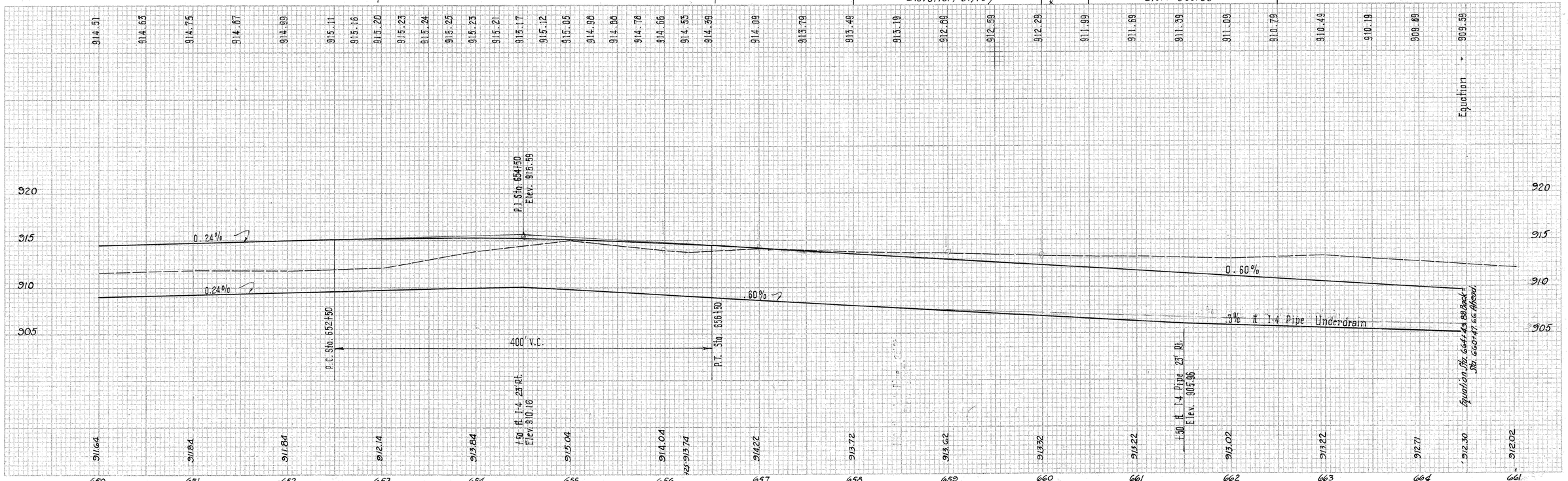
Tacked Hub
Tacked Hub
E. U.S.R. 25
Tacked Hub (Flush
Tacked Hub
Tacked Hub
459'
113'
203'
15'

BENCH MARK

B.M. #52 R.R. Spike in base of 30" Elm 336' Rt of Sta. 659+89 Elevation 915.23

BENCH MARK

B.M. #53 R.R. Spike in base of fence post 118' Lt. of Sta. 664+67 Elev. 909.88



PLAN & PROFILE STA. 650+00 TO STA. 664+49.88 (BACK)

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

66
466

AUGLAIZE COUNTY
AUG-25-5.05

OPAL L. MILLER

SHEET
P.T. Sta. 664+49.88 (Back) =
Sta. 660+47.66 (Ahead)

R/W Fence

Sta. 666+10 - 72' Lt. Begin 20' of 8" I-3 Outlet Pipe
Outlet Elev. 905.01

1-D

Sta. 668+45 - 67' Lt. Plug
Exist. tile with 0.1 Cu.Yd. Concrete

Tacked Hub
1000'
U.S. 25
Hub
G71+00
Flush
1000'
old Orchard
Tacked Hub
P.O.T. STA 670+93.75

Sta. 669+51 - 71' Lt. Plug
Exist. tile with 0.1 Cu.Yd. of Conc.

5" F.T.

2-D

4" F.T.

212' of E-12 Pipe Removed

24" of E-12 Pipe Removed

5-D

Abandon

R/W Fence

SHEET

661 662 663 664 665 666 667 668 669 670 671 672 673 674 675

N 0° 55' E

156' of E-12 Pipe Removed

I-4 Pipe

0.308

1:10

4-D

BEGIN

R/W Fence

1-U

3-D

5" F.T.

Sta. 668+03 - 70.5 Rt. Begin 20' of 8" I-3 Pipe Outlet for Roadway Drainage

AUG-25-1174
Sta. 670+00 Rt. Prop. 15'x 70' S-27 Pipe For Rdwy Culv.
See Sheet No. 135

Abandon

LANE

R/W Fence

END

OPAL L. MILLER

Sta. 662+00 - 23' Rt. End I-4 Pipe Underdrain

OPAL L. MILLER

BENCH MARK
B.M. #54 R.R. Spike in base of 12" hickory
170' Lt. of Sta. 670+92
Elevation 904.17

ft of I-4 Pipe Underdrain
906.06

Equation Sta. 664+49.88 Back = PT =
Sta 660+47.66 Ahead

-3 1/2%

100 - 23' Rt. End I-4 Pipe Underdrain Outlet Elev. 904.6 ±
904.5

-0.60%

912.02 911.12 910.32 909.82 907.72 906.29 905.19 904.79 904.79 905.89 R 306.49 L 305.49 RT 305.49 L 97 - 302.79 1/0 306.39 906.39 907.79 905.09 #21 904.49 900.99

909.59
909.56
909.26 908.96 908.66 908.36 908.06 907.76 907.46 907.16 906.86 906.56 906.26 905.96 905.66 905.36 905.06 904.76 904.46 904.16 903.86 903.56 903.26 902.96 902.66 902.36 902.06 901.76 901.46 901.16 900.86

915 910 905 900 895

661 662 663 664 665 666 667 668 669 670 671 672 673 674 675

Equation = 150

PLAN & PROFILE STA. 660+47.66 TO STA. 675+00

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

67 / 466

AUGLAIZE COUNTY
AUG-25-5.05

OPAL L. MILLER

WARREN C CRAWFORD JR. & WILLIE CRAWFORD (HEIR)

MATHEW PHILLIP WAUBEN A.K.A MATHEW P. WAUBEN & RACHALE A.K.A. RACHEL R. ROBERTA WAUBEN WAUBEN (H&W)

ETHEL D. CURRY

LLOYD G. LOWTHER & MARY JANE LOWTHER

FREDERICK WAUBEN & PHILLIPINE WAUBEN

GEORGE WILLIAM HENRY

R/W Fence

BEGIN SHEET

END SHEET

Sta 677+00 - 6.5 Rt. Drop 15'x 65' of S-27 Pipe for Roadway Culverts See Plan & Profile Sheet No. 136

AUG-25-1187

1-D

Sta. 682+00 - 124' Lt. 1-5 Pipe Special (30° x 24")

Sta. 682+60 - 110' Lt. 8"x 24" Tee & 10' of 8" 1-3 Pipe

Sta. 682+87 - 107' Lt. 8"x 24" Tee & 10' of 8" 1-3 Pipe

Sta. 683+45 - 94' Lt. 8"x 24"Y & 20' of 8" 1-3 Pipe

Sta. 683+93.5 - 83' Lt. End 1-3 Pipe for Roadway Drainage Elev. 687.6

16" F.T.

36' of E-12 Pipe Removed

18" F.T.

182 M.P.

Ex. Conc. Headwall

2-D

To be removed under Miscellaneous Removal Note

E-12 Pipe Removed Over 15" (96") 19' of Under (12")

Open Ditch

Twin 54" S-27 Pipe Sta. 684+00

90° 41'

AUG-25-1201 See Detail Sheet No. 347

3-D

4-D

Sta. 682+00

Sta. 683+70 - 111.5 Rt. End Sod Begin Dumped Rock Fill (16' wide)

100' R

100' R

Sta. 685+40.85 Begin Flare

Sta. 687+90.85 End Flare

6-D

Sta. 688+16.81 Lt. 10'x 6' 1-5 Pipe Outlet

Sta. 690+80.85 01+00 (A)

R/W Fence

Gate

LANE

5-D

54" F.T. Removed

132' of E-12 Pipe Removed

30°-0"

117' of E-12 Pipe Removed

8-D

R/W Fence

Trash to be Removed & Disposed of See X-Sections

7-D

End R/W Fence 123

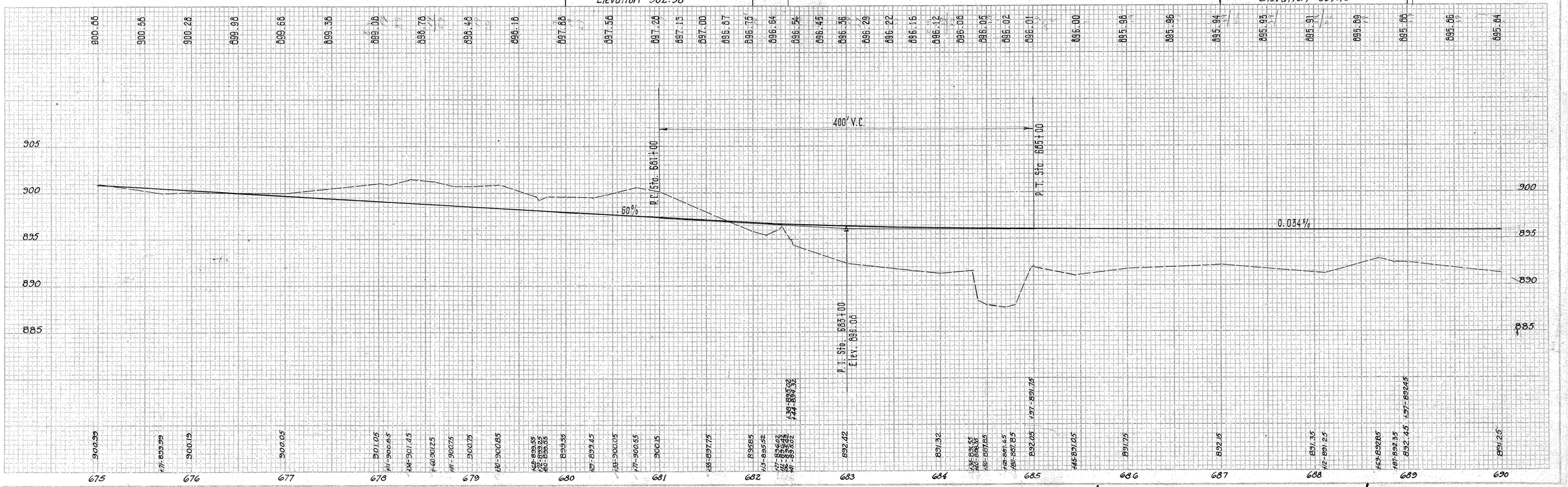
Begin R/W Fence 150

Sta. 688+29 - 108' Rt. Plug Exist. Pipe with 0.1 Cu. Yds. of Concrete

Sta. 690+00 - 35' Rt. Plug Exist. Pipe with 0.1 Cu. Yds. of Conc.

BENCH MARK
B.M. #55 R.R. Spike in base of 12" Hickory
140' Rt. of Sta. 682+32
Elevation 902.98

BENCH MARK
B.M. #56 R.R. Spike in base of triple Elm
102' Lt. of Sta. 689+58
Elevation 895.19



PLAN & PROFILE STA. 675+00 TO STA. 690+00

MICROFILMED
DEC 29 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

68
466

AUGLAIZE COUNTY
AUG-25-5.05

Frederick Wauben &
Phillipine Wauben

Dean F. Shaffer & Hazel Shaffer (Life Estate)

George William Henry

Marker to be furnished and erected on the Left by the State of Ohio before acceptance of this Project.

I-196(5) IM-963(3)

BEGIN SHEET

END SHEET

AUG-25-1218
Sta. 693+00 - Prop. 10'-4" 21° S-27 Pipe for Roadway Culverts For Details See Sheet № 140

AUG-25-1233
See Detail Sheet № 349

AUG-25-1235
Ramp "B"

AUG-25-1236
Ramp "C"

Sta. 692+00 (Northbound U.S.R. 25
Type: OS-2-A
Span: 44'
H = 3'
4 sign supports: 3', 4', 9', 9' from beam Splice

BENCH MARK
B.M. #57 R.R. Spike in base of 30" Elm 98' Lt. of Sta. 693+40
Elevation = 895.01

BENCH MARK
B.M. #58 R.R. Spike in base of 8" 133' Rt. of Sta. 698+15
Elevation 894.11

BENCH MARK
B.M. #59 R.R. Spike in ⌀ at the S.W. Cor. of Exist. U.S.R. 25 & National Rd.
Elevation 908.47

DATUM EQUATION

Top of Pavement National Road Overhead ~ 927.30

AUG-25-13.29 ALL-25-0.00
B.M. #8, S.W. Cor. of Intersection NATIONAL ROAD & Exist. U.S. 25 (U.S.G.S Datum) Elev. 908.81
Equals AUG.-25-4.71, B.M. #59 - R.R. spike in ⌀ at the S.W. Corner of Exist. U.S. 25 & NATIONAL ROAD (U.S.G.S DATUM) Elev. 908.47

PROPOSED STRUCTURE
TYPE: Continuous steel beam with reinf. Conc. deck and substructure.
SPANS: 50'-62.5'-62.5'-50'c brgs.
ROADWAY: 48'-0" f/f 2'-0" Safety Curbs (including median)
LOAD FREQUENCY: CF+150 (51)
SKEW: None
WEARING SURFACE: 3/4" Monolithic
APPROACH SLABS: AS-1-54 (20' long)
ALIGNMENT: Tangent.
AUG-25-1234

P.C. Sta. 691+00
P.I. Sta. 693+00
Elev. 895.74
P.T. Sta. 695+00
400' V.C.
400' V.C.
-0.034%
+0.40%
F/L I-4 28' Lt. 7
F/L I-4 Elev. 894.12

PLAN & PROFILE STA. 690+00 TO STA. 705+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

69
466

AUGLAIZE COUNTY
AUG -25-5.05

SHEET

Ex. R/W

Sta. 7+67.06 (B) - 6' Rt.
Sta. 7+09.92 (B) - 10' Rt.
℄ S. Sta. 6+03.01 (B)
6+03.01 (B)
8+00 (B)
9+00 (B)
10+00 (B)
11+00 (B)
S.T. Sta. 10+03.01 (B)
Sta. 707+66
8" x 8" Y @ 45° For 1-4
STA. EQUATION Sta. 706+64.00 Back = Sta. 0+00 (Ahead) U.S.R. 25
Sta. 01+19.40 - 41' Lt. U.S.R. 25
Sta. 11+71.16 (B)
Sta. 0+74.03
Sta. 1+24 - 25' Lt. 6" x 6" Y @ 45° For 1-4
P.T. Sta. 4+59.52 (T)
Sta. 6+76 (T) - 14' Lt. End 1-4
P.T. Sta. 0+19.62 (T)
Exist. 8" storm sewer under pav't. ℄ Sta. 3+50 back
1-4 Pipe
Ex sod
Ex 1-2-A.C.B.
705 | 706 (T) | 707 | 708
Sta. 705+24
55' Lt.
85° - 30°
P.C. Sta. 0+00
1+00
2+00
3+00
4+00
5+00
6+00
7+00
8+00
9+00
10+00
11+00
Sheet
End
BEGIN
9+00 (T)
10+00 (T)
11+00 (T)
Prop 1-4 Pipe
Exist. 6" 1-4 Underdrain
N - 0° - 55' E.
48' - 6" S.S. below 72' - 12" S.S.
Exist. 6" 1-4 Underdrain
Ex. R/W
S.T. Sta. 11+90.15 (B) - Sta. 707+85.87 - 55' Rt.
AUGLAIZE CO.
ALLEN CO.
P.T. Sta. 3+60.01 (T)
Sta. 2+12.40
Sta. 4+25 (T) - 14' Rt. End 1-4
Sta. 3+50 - 12" of 12" Storm Sewer under Pav't. Extend Grade.
Begin Flare Sta. 4+08.79
1-D
End Flare Sta. 6+65.79
STA 6+70 END WORK
℄ Prop R/W
℄ S. Sta. 9+90.15 (B)
C. Cable

TYPICAL SECTION ADJOINING PAVEMENT

℄ Proposed lane for Future Construction
℄ Existing Lane
37'-0"
Variable 10'-0" 12'-0" 12'-0" 10'-0" 30'-0" 10'-0" 12'-0" 12'-0" 10'-0" Variable
4" 4"
1"/ft. 1"/ft. 1"/ft. 1"/ft.
4:1 4:1
℄ Variable Slope

CODE
1. 9" Reinforced Portland Cement Concrete Pavement
2. 6" Subbase
3. Stabilized Crushed Aggregate Shoulders 8" deep
4. Pipe Underdrain
5. Subbase material extended to side ditch.

900.50 900.58 900.65 900.72 900.79 900.84 900.89 900.94 900.98 901.02 901.05 901.08 901.10 901.17 901.25 901.33 901.41 901.49 901.57 901.65 901.73 901.81 901.89 901.97 902.05

905
900
895

P.I. Sta. 706+00
Elev. 900.84
0.40%
0.06%
# of 1-4 Pipe Lft.
400' V.C.
1-4 694.12
1.66 # 1-4 25' Lft. 894.92
Sta. 11+24 # 1-4 25' Lft. 895.64
Sta. 4+25 (T) # 1-4 - 14' Rt. 895.75
Sta. 6+73 (T) - 14' Lft. # of 1-4 Lft. 896.51

901.81 901.81 901.41 901.21 901.06 899.76 898.56 898.74 900.47 901.72 902.38 901.18 901.13 901.76 902.21 902.36

705 706 707 708 0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00 11+00

PLAN & PROFILE STA. 705+00 TO STA. 11+00

DIST. NO. DIVISION	STATE	PROJECT	
2	OHIO		

70
466

AUGLAIZE COUNTY
AUG-25 5.05

Included in Ramp "A" Back Only

Included in Ramp "A" Quantities

1464

2753

2851

2445

934.84 938.84 934.3 932.7 931.0 914.0 913.7 914.5

939.19
318+00
915.16

934.99
317+00
915.96

316+50
916.9

Note: Earth shall be mounded around the end of T-71 concrete pavement to avoid any "Bleeding out" of I-22 Subbase. The Contractor shall take special care to avoid any such "Bleeding"

Zero Section Sta 316+22.5

Section A-A

Grade Ditch around Toe of Fill to Drain into East Side Ditch

Median Ditch

I-10 Dumped Rock Fill

	End Area		Volume	
	Cut	Fill	Cut	Fill
Ahead	39	4227		
Back	13	2753		
			31	10378
	4	2851		
			13	4902
	10	2445		
	5	1245		
Sta 316+22.5	0	0		
Add for Grading Ditch around End of Fill			42	0

Excavation Embankment Emb. 1.5%

Cu.Yds.	Cu.Yds.	Cu.Yds.
12.98	47 630	33 005

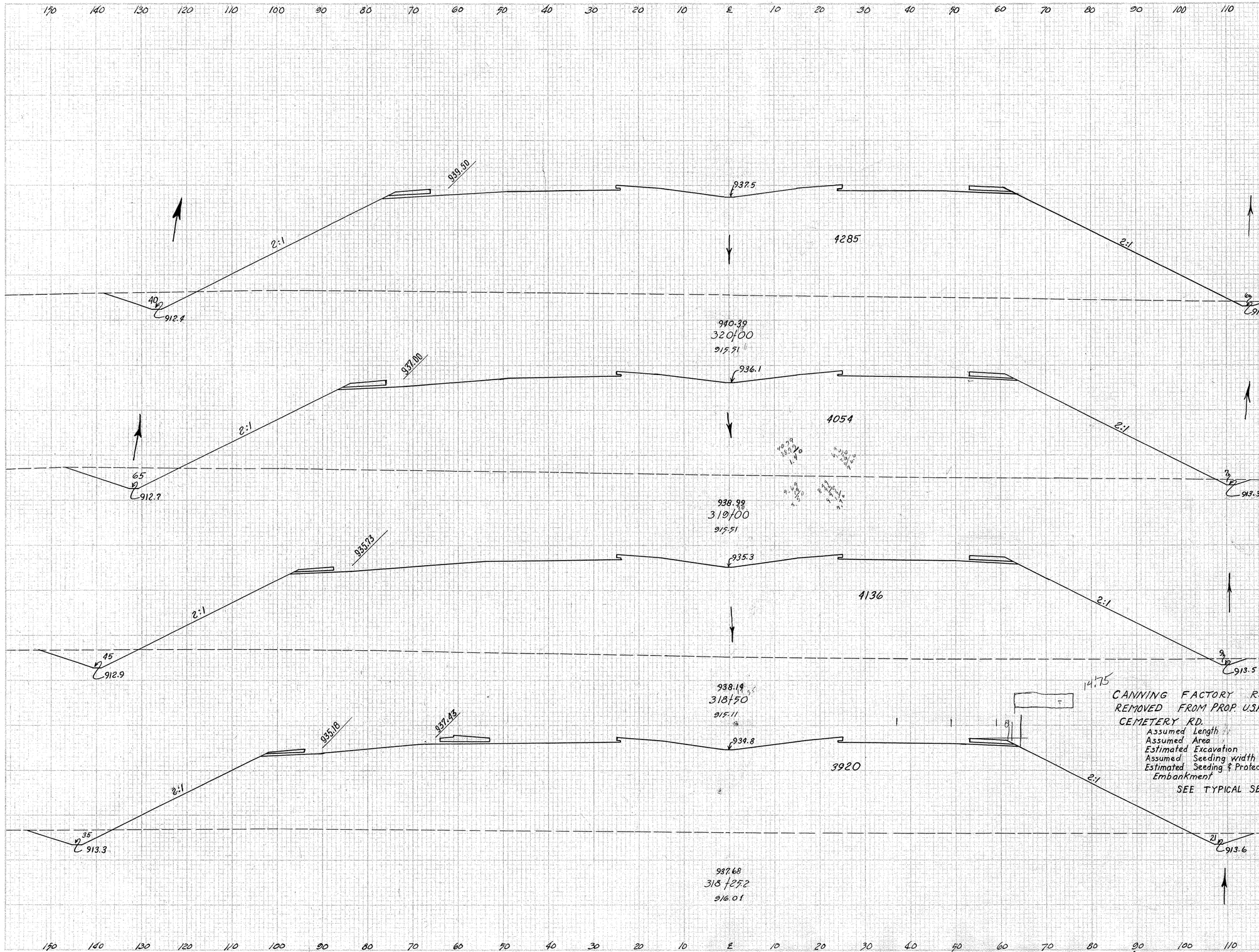
316+00 316+10 316+20 316+30 316+40 316+50

X-SECTIONS STA. 316+22.5 TO STA. 318+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

71
466

AUGLAIZE COUNTY
AUG-25-5.05



	End Area		Volume	
	Cut	Fill	Cut	Fill
46	4285			
			219	15443
72	4054			
			117	7584
54	4136			
			51	3700
			776	776
56	3920			
			49	3802

14.75

CANNING FACTORY ROAD SHALL BE REMOVED FROM PROP. U.S.R. 25 EAST TO CEMETERY RD.

Assumed Length	1385
Assumed Area	15
Estimated Excavation	776 Cu yds.
Assumed Seeding width	36'
Estimated Seeding & Protecting	5540 Sq yds
Embankment	776 Cu yds

SEE TYPICAL SECTION SHEET Nº 165

Sta 318+00 Ahead 39 4227
Back 13 2753

X-SECTIONS STA. 318+25.20 TO STA. 320+00

FED. RD. DIVISION	STATE	PROJECT		72
2	OHIO			466

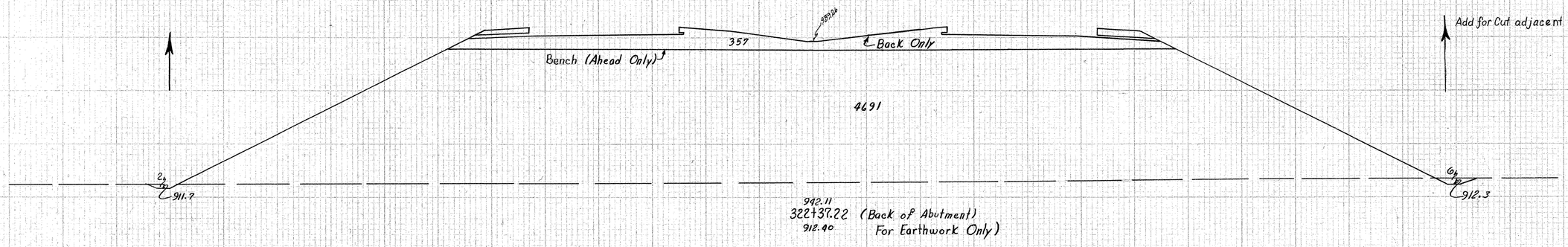
AUGLAIZE COUNTY
AUG-25-5.05

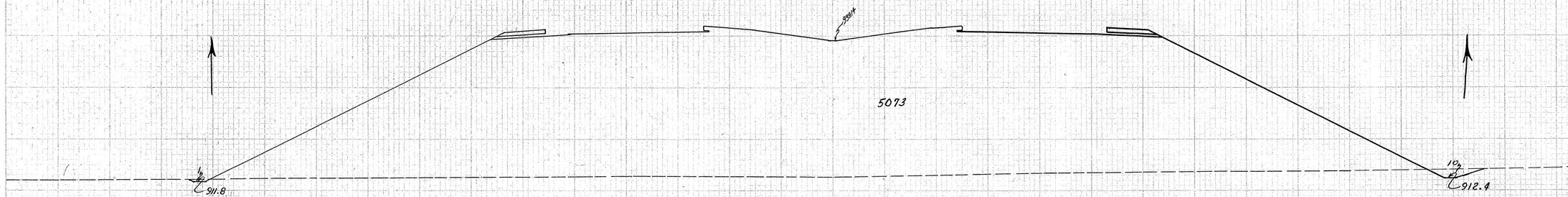
Sta 323+76.0 = Sta 323+81.84 Back Only

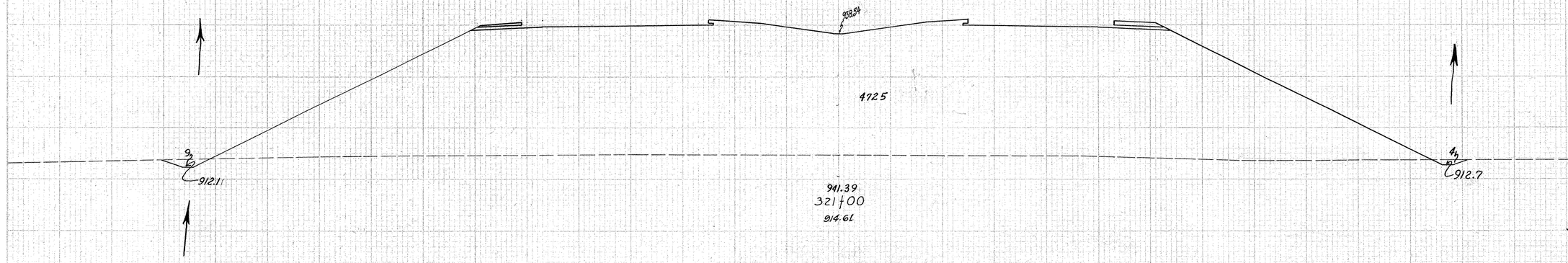
Sta 323+30 = Zero Section

Sta 322+90 = Zero Section

Sta 322+44.5 = Sta 322+37.22 Ahead Only







	End Area		Volume	
	Cut	Fill	Cut	Fill
Sta 323+76.0	5	4947		
			4	4214
Sta 323+30	0	0		
Sta 322+90	0	0		
			7	3953
Sta 322+44.5	8	4691		
Add for Cut adjacent To R.R.			341	
			2	1265
Ahead	8	4691		
Back	8	5048		
			13	6976
			11	5073
			44	18145
			13	4725
			109	16686
Sta 320+00	46	4285		

X-SECTIONS STA. 321+00 TO STA. 323+76.0

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

73
466

AUGLAIZE COUNTY
AUG-25-5.05

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110

936.14
5135
937.54
938+99
327+00
910.17
5421
911.0
940.39
326+00
938.54
5400
912.0
941.39
325+00
910.40
939.14
5405
912.5
941.99
324+00
911.20
939.20
Ahead Only
400
Bench (Back Only
4947
942.05
323+81.84
911.62
Back of Abutment Projected Section
For Earthwork Only

909.5
910
909.3

	End Area		Volume	
	Cut	Fill	Cut	Fill
13	5135			
			43	19549
10	5421			
			44	20039
14	5400			
			52	20010
14	5405			
			7	3616
Ahead	5	5347		
Back	5	4947		

Excavation 1288 Cu Yd
Embankment 200238 Cu Yd
Emb 15% 230343 Cu Yd

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

X-SECTIONS STA. 323+81.84 TO STA. 327+00

FED. RD. DIVISION	STATE	PROJECT		74 / 466
2	OHIO			

AUGLAIZE COUNTY
AUG-25-5.05

Included in Ramp "C" Quantities

Included in Ramp "A" Quantities

923.59

1455

Included in Ramp "C" Quantities Ahead only

926.44
332+00
910.17
926.59
1663
998

Included in Ramp "A" Quantites

802

23
907.0

30
908.9

Ahead
Back

929.44
331+00
911.27
929.54
3640

+10 Fill Median to Elev. 933.0±

18
907.3

32
909.2

932.32
330+00
914.57
Grate F/L 931.81

I-10 Dumped Rock Fill (7'×4'×2.5')÷27=2.6 Cu.Yd. Excavation included in Item E-2

7'-0"

4'-0"

15"×30° I-5 Special

℄ F/L 927.79

℄ 60'×15" S-27 Pipe @ 0.3% Grade

F/L = 928.0

Cl."E" Concrete Collar, See Sht. 96 for details and basis of payment.

1.35
929.25

931.81
929.25
4360

907.6
12
2.5'
1'
36'×15" S-27 Pipe
16'×15" S-27 Pipe
15"×30° I-5 Special

6
909.5

CULVERT DATA

TYPE: 15" S-27 Pipe for Roadway Culverts PC-3 9 4

SIZE: 68'-0"×15" ; 36'-0"×15" ; 16'-0"×15"

WORK REQUIRED: Place 15"×S-27 Pipe as median drain at Sta 329+00 as shown above. A standard I-2A Catch Basin shall be placed in the median and a standard concrete endwall at the outlet. Dumped Rock Fill shall be placed at the outlet for Erosion protection.

934.99
329+00
910.17
934.34
4605

22
907.9

8
910.0

937.19
328+00
910.67
935.56
4950

5
908.2

9
910.3

938.41
327+35
910.67

ESTIMATED QUANTITIES

Item E-2	Excavation for Structures	7	Cu.Yd.
Item I-5	15"×30° Special for S-27 Pipe	2	Each
Item S-27	15" Pipe for Roadway Culverts Sec. M-6.4(d)	52	Lin.Ft.
Item I-8	Std. Nº I-2A Catch Basin	1	Each
Item I-10	Dumped Rock Fill	2.6	Cu.Yd.
Item S-1	Concrete for Structures Class "E"	0.26	Cu.Yd.
Item S-27	15" Pipe for Roadway Culverts M-8.8(b) or Sec. M-6.8(b)	68.0	Lin.Ft.

	End Area Cut	End Area Fill	Volume Cut	Volume Fill
332+00	0	1455		
			0	5775
Ahead	0	1663		
Back	53	3960		
			191	13148
	50	3640		
			126	14815
	18	4360		
			89	16602
	30	4605		
			53	11503
	14	4950		
			8	6537
Sta 327+00	13	5135		

X-SECTIONS STA. 327+35 TO STA. 332+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

75
466

AUGLAIZE COUNTY
AUG-25-5.05

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110

908.59
32
906.3
F/L I-4-906.0
65
93
42
F/L I-4 906.0
905.7

911.44
337+00
908.56

911.59
15
906.6
671
4:1
26
906.0

914.44
336+00
908.56

3357.70

914.59
28:1
5
906.9
1090
3:1
32
906.3

917.44
335+00
908.86

917.59
2.35:1
8
907.5
1563
2:1
10
906.7

Add for open ditch from Structure to Sta 334+00

920.44
334+00
908.26

920.59
Included in Ramp "C" Quantities
1880
Included in Ramp "A" Quantities

923.44
333+00
908.97

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

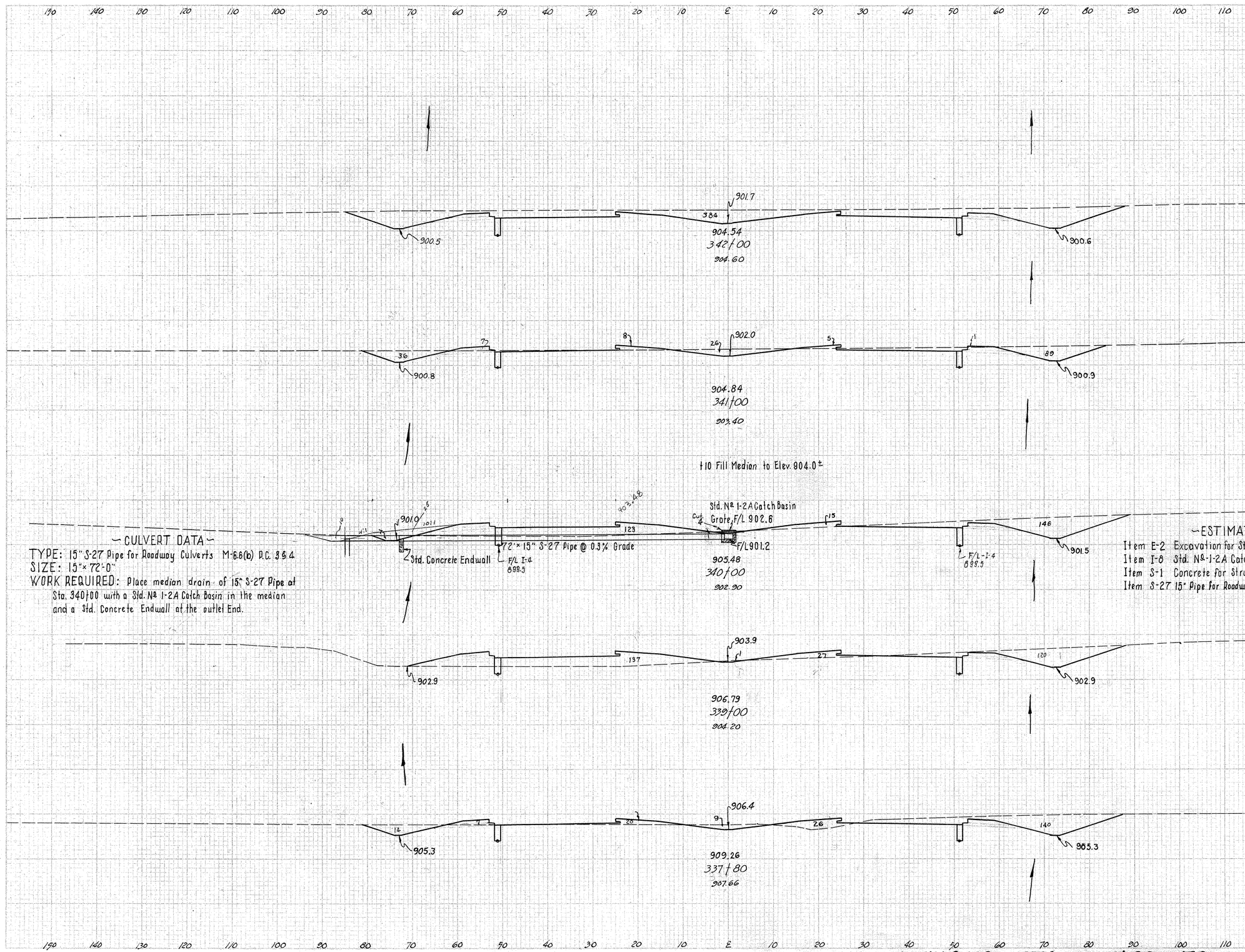
	End Area Cut	End Area Fill	Volume Cut	Volume Fill
	74	188		
			213	1535
	41	671		
			144	3261
	37	1090		
			102	4913
			20	0
	18	1563		
			33	6376
	0	1880		
			0	6176
Sta 332+00	0	1455		

X-SECTIONS STA. 333+00 TO STA. 337+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

76
466

AUGLAIZE COUNTY
AUG-25-505



	End Area		Volume	
	Cut	Fill	Cut	Fill
384	0			
			991	39
151	21			
			570	294
159	138			
			385	559
121	164			
			631	482
163	59			
			348	313
Sta 337+00	74	158		

Excavation 611 Cu.Yd.
Embankment 1684 Cu.Yd.
Emb. 15% 1,330 Cu.Yd.

CULVERT DATA

TYPE: 15" S-27 Pipe for Roadway Culverts M-6.6(b) P.C. 3&4
SIZE: 15" × 72'-0"
WORK REQUIRED: Place median drain of 15" S-27 Pipe at Sta. 340+00 with a Std. No 1-2A Catch Basin in the median and a Std. Concrete Endwall at the outlet End.

ESTIMATED QUANTITIES

Item E-2	Excavation for Structures	9 Cu.Yd.
Item I-8	Std. No 1-2A Catch Basin	1 Each
Item S-1	Concrete for Structures Class "E"	0.26 Cu.Yd.
Item S-27	15" Pipe for Roadway Culverts M-6.6(b) or M-6.8(b)	72 Lin.Ft.

X-SECTIONS STA. 337+80 TO STA. 342+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

77
466

AUGLAIZE COUNTY
AUG-25-5.05

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110

899.9
473
44
894.5
22
896.0

902.74
348+00
898.24

110 Fill Median to Elev. 902.0±

901.04
896.0
350
Std. No. 1-2A Catch Basin
Grate F/L 899.9
37
Std. Concrete Endwall
88'×15" S-27 Pipe @ 0.8% Grade
F/L 896.7
13
896.5

903.04
347+00
899.74

CULVERT DATA
TYPE: 15" S-27 Pipe for Roadway Culverts M-6.6(b) P.C.3 & 4
SIZE: 15"×88'-0"
WORK REQUIRED: Place median drain of 15" S-27 Pipe at Sta. 347+00 to left of ℄ with Std. No. 1-2A Catch Basin in the median and a Std. Concrete Endwall at the Outlet end.

Included in Ramp "D" Back Only

Included in Ramp "B" Back Only

ESTIMATED QUANTITIES

Item E-2	Excavation for Structures	20	Cu. Yd.
Item I-8	Std. No. 1-2A Catch Basin	1	Each
Item S-1	Concrete for Structures Class "E"	0.26	Cu. Yds.
Item S-27	15" Pipe for Roadway Culverts Sec M-6.8(b) or Sec M-6.6(b)	88	Lin. Ft.

900.5
64
285
75
36
896.5
19
897.0

903.34
346+00
899.24

Included in Ramp "D" Quantities

Included in Ramp "B"

900.79
186
℄ Outlet I-4 101' Lt.
F/L 897.25
F/L I-4 on Lt. - 897.5
F/L I-4 on Rt.
898.0

903.64
345+00 End I-4 Pipe Underdrain 51' Rt. & Lt.

Included in Ramp "D" Quantities

Included in Ramp "B"

900.54
900.8
79
105

903.68
344+8723
900.90

Included in Ramp "D" Quantities

Included in Ramp "B"

15
9
3
901.1
40
2
24
1

903.94
344+00
903.30

Included in Ramp "D" Quantities

Included in Ramp "B"

901.4
274
900.3
2
9
8
33
900.3

904.24
343+00
904.60

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

X-SECTIONS STA. 343+00 TO STA. 348+00

	End Area		Volume	
	cut	Fill	cut	Fill
	66	473		
			215	1524
	50	350		
			194	1378
Ahead	55	394		
Back	0	255		
			0	817
	0	186		
			0	88
	0	184		
			120	330
	74	20		
			704	56
	306	10		
			1278	19
Sta 342+00	384	0		

FED. RD. DIVISION	STATE	PROJECT		78 466
2	OHIO			

AUGLAIZE COUNTY
AUG-25-5.05

	End Area		Volume	
	Cut	Fill	Cut	Fill
110		855		
			469	3474
143		1021		
				400
			376	9143
60		1216		
			163	4976
28		1201		
			117	4208
35		1071		
			133	3637
37		893		
			191	2529
Sta 348+00	66	473		

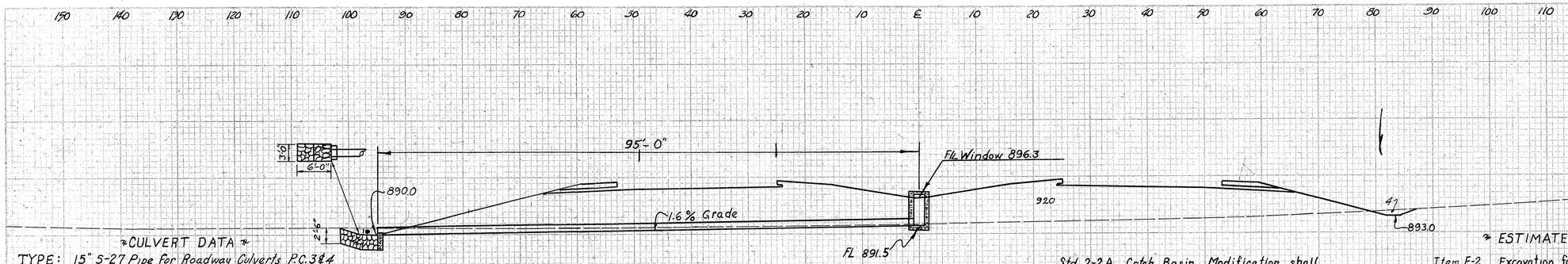
For Quaker Ditch Back Fill Add

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

X-SECTIONS STA. 349+00 TO STA. 354+00

FED. NO. DIVISION	STATE	PROJECT		79
2	OHIO			466

AUGLAIZE COUNTY
AUG-25- 5.05



~CULVERT DATA~

TYPE: 15" S-27 Pipe for Roadway Culverts P.C. 3&4
SIZE: 94'0"X15"
WORK REQUIRED: Place 94' of 15" S-27 Pipe for Roadway Culverts at Station 359+00 and perpendicular to the centerline of survey. The median shall be drained by Standard 2-2A Catch Basin Connected to the 15" Pipe. A Standard Concrete Endwall is placed on the outlet end. The outlet is also protected by 2 Cu.Yd. of dumped rock Fill.

Std 2-2A Catch Basin Modification shall Consist of widening the window opening from 1'-6" to 2'-0" and adding an additional 1'-3" #4 ϕ bar.

~ESTIMATED QUANTITIES~

Item E-2	Excavation for Structures	10 Cu.Yd.
Item I-8	Standard Nº 2-2A Catch Basin (Mod)	1 Each
Item I-10	Dumped Rock Fill	2 Cu.Yd.
Item S-1	Concrete for Structures Class "E"	.26 Cu.Yd.
Item S-27	15" Pipe for Roadway Culverts Sec. M-6.8(d) or Sec. M-6.6(b)	94 Lin.Ft.

~CULVERT DATA~

TYPE: 15" S-27 Pipe for Roadway Culvert M-6.8(b) P.C. 3&4
SIZE: 15"×82'-0"
WORK REQUIRED: Place median drain of 15" S-27 pipe to left of ℄ at Sta. 355+00 with a Std. 1-2A Catch Basin in median and a Std. Concrete Endwall at the Outlet End. Place Dumped Rock Fill at Outlet for Protection.

~ESTIMATED QUANTITIES~

Item E-2	Excavation for Structures	25 Cu.Yds.
Item I-8	Std. Nº 1-2A Catch Basin	1 Each
Item S-1	Concrete for Structures Class "E"	0.28 Cu.Yds.
Item S-27	15" Pipe for Roadway Culverts Sec M-6.8(b) or Sec M-6.6(b)	82 Lin.Ft.
Item I-10	Dump Rock Fill	2.2 Cu.Yds.

	End Area		Volume	
	Cut	Fill	Cut	Fill
14		920		
			98	3283
39		853		
			133	3395
33		980		
			185	3438
67		875		
			280	3187
84		846		
			359	3150
Sta. 354+00	110	865		

Excavation 17538 Cu.Yd.
Embankment 36,788 Cu.Yd.
Emb. 15% 42,231 Cu.Yd.

X-SECTIONS STA. 355+00 TO STA. 359+00

FED. RD. DIVISION	STATE	PROJECT		80 466
2	OHIO			

AUGLAIZE COUNTY
AUG-25- 5.05

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110

	End Area		Volume	
	Cut	Fill	Cut	Fill
992	0			
			1589	0
724	0			
			929	35
279	38			
			453	311
253	327			
			312	747
59	420			
			135	2481
Sta 359+00	14	920		

897.5
992
8965
900.34
362+00
904.92
896.7

897.35
724
896.2
I-14 - Type 1 Paved Gutter
900.19
361+50
904.02
896.55

26
25
3
3
2
40
7
210
8930
I-14 - Type 1 Paved Gutter
897.20
900.04
361+00
899.82
896.4

896.9
327
243
10
891.0
896.25
360+51
896.00

896.6
420
45
14
890.6
896.1
899.82
360+00
894.60

X-SECTIONS STA. 360+00 TO STA. 362+00

FED. RD. DIVISION	STATE	PROJECT		81 466
2	OHIO			

AUGLAIZE COUNTY
AUG-25-5.05

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110

898.7
663
897.7
901.54
366+00
903.64
897.9

898.4
1176
897.4
901.24
365+00
906.04
897.6

898.1
1076
897.1
900.94
364+00
905.24
897.3

898.0
1101
897.0
900.82
363+59 ℄ Lane
905.32
897.2

897.8
1060
896.8
900.64
363+00
904.92
897.0

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

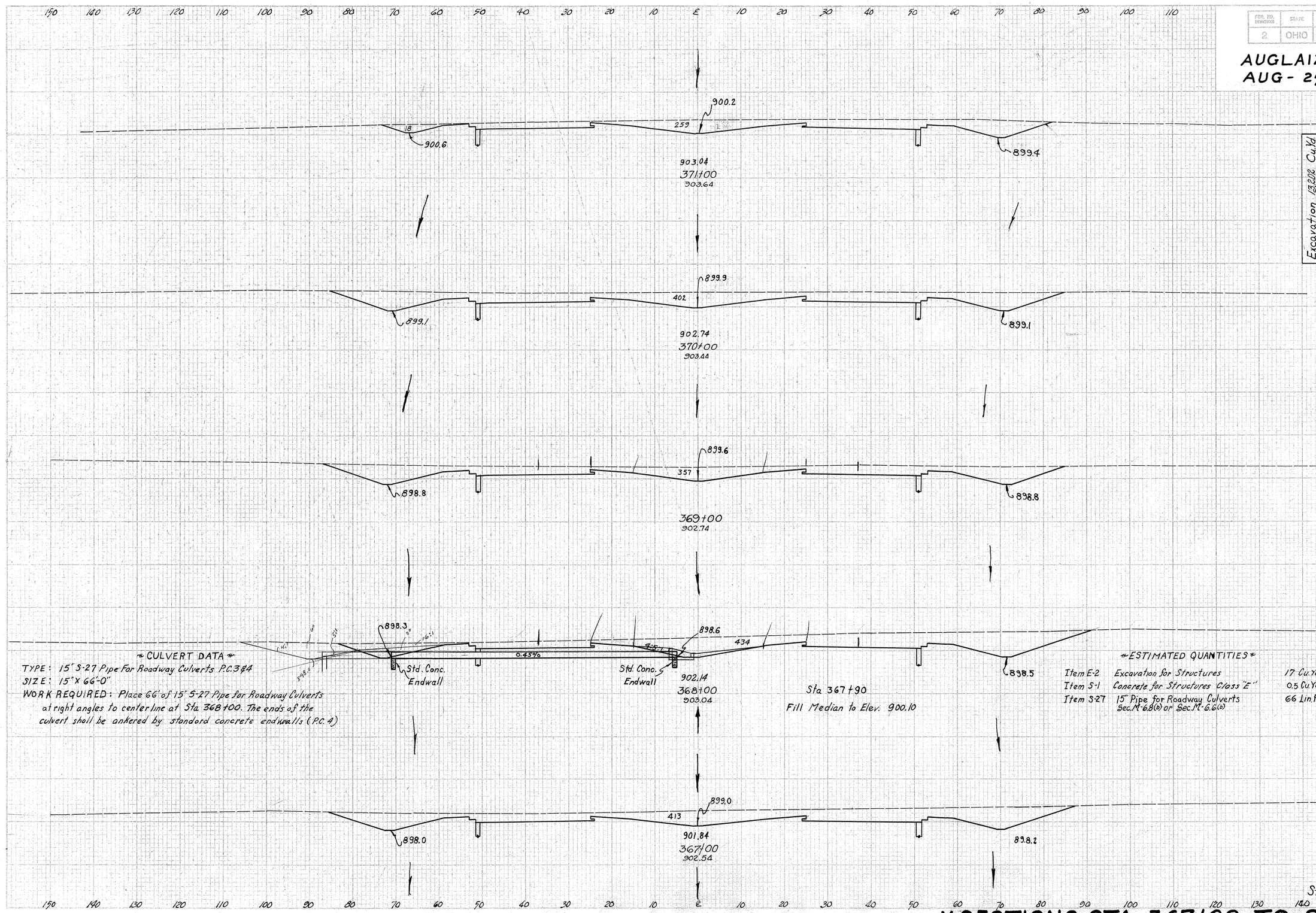
	End Area		Volume	
	Cut	Fill	Cut	Fill
663	0			
			3405	0
1176	0			
			4171	0
1076	0			
			1653	0
1101	0			
			2361	0
1060	0			
			3800	0
Sta 362+00	992	0		

X-SECTIONS STA. 363+00 TO STA. 366+00

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

82
466

AUGLAIZE COUNTY
AUG - 25 - 5.05



Excavation 13,208 Cu.Yd
Embankment 9025 Cu.Yd
Emb. 15% 10,379 Cu.Yd.

	End Area		Volume	
	Cut	Fill	Cut	Fill
	277	0		
			1257	0
	402	0		
			1406	0
	357	0		
			1465	0
	434	0		
			1569	0
	413	0		
			1993	0
Sta 366+00	663	0		

CULVERT DATA

TYPE: 15" S-27 Pipe For Roadway Culverts P.C.3&4
SIZE: 15" X 66'-0"
WORK REQUIRED: Place 66' of 15" S-27 Pipe for Roadway Culverts at right angles to center line at Sta 368+00. The ends of the culvert shall be anchored by standard concrete endwalls (P.C. 4)

Sta 367+90
Fill Median to Elev. 900.10

ESTIMATED QUANTITIES

Item E-2	Excavation for Structures	17 Cu.Yd
Item S-1	Concrete for Structures Class "E"	0.5 Cu.Yd
Item S-27	15" Pipe for Roadway Culverts Sec.M-6.8(b) or Sec.M-6.6(b)	66 Lin.Ft.

X-SECTIONS STA. 367+00 TO STA. 371+00

FED. RG. DIVISION	STATE	PROJECT		83 466
2	OHIO			

AUGLAIZE COUNTY
AUG-25- 5.05

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 E 10 20 30 40 50 60 70 80 90 100 110

376+30

904.40 904.35 901.9 904.40 904.35
174 35 36
902.1

904.34
376+00
901.77

901.4
2 37 52 92
901.6

904.24
375+00
903.97

901.1
8 27 4 36 31 83
901.0 900.6

903.94
374+00
902.77

900.8
43 17 111 17
900.3

903.64
373+00
902.07

498.77

F.L. Grate 899.7 900.0 Adjacent Ditch

900.5
211
No 1-2A C.B.
Prop 15" I-3 Pipe
Prop 15" I-3 Pipe ← → Prop 15" I-2 Class"A" Storm Sewer
894.85

903.34
372+00
900.37

See Middle Pike Details
70
-51
19

900.4
253
10
899.7

903.25
371+70
900.07

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 E 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

Sta 371+00 277

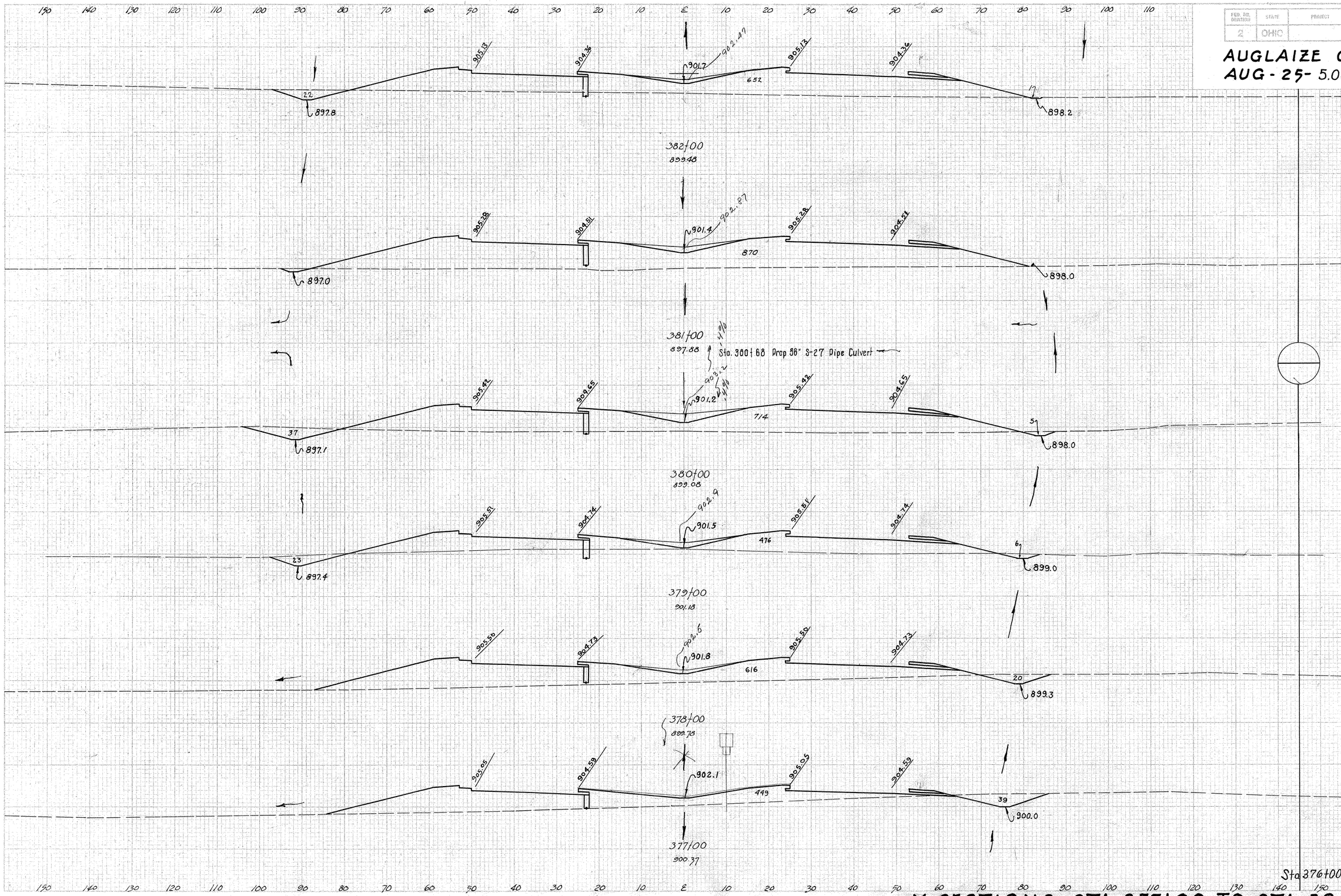
End Area		Volume	
Cut	Fill	Cut	Fill
36	209		
		333	396
144	5		
		533	22
144	7		
		330	113
34	54		
		63	491
0	211		
		6	258
10	253		
		372	328

X-SECTIONS STA. 371+70 TO STA. 376+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

84
466

AUGLAIZE COUNTY
AUG-25- 5.05



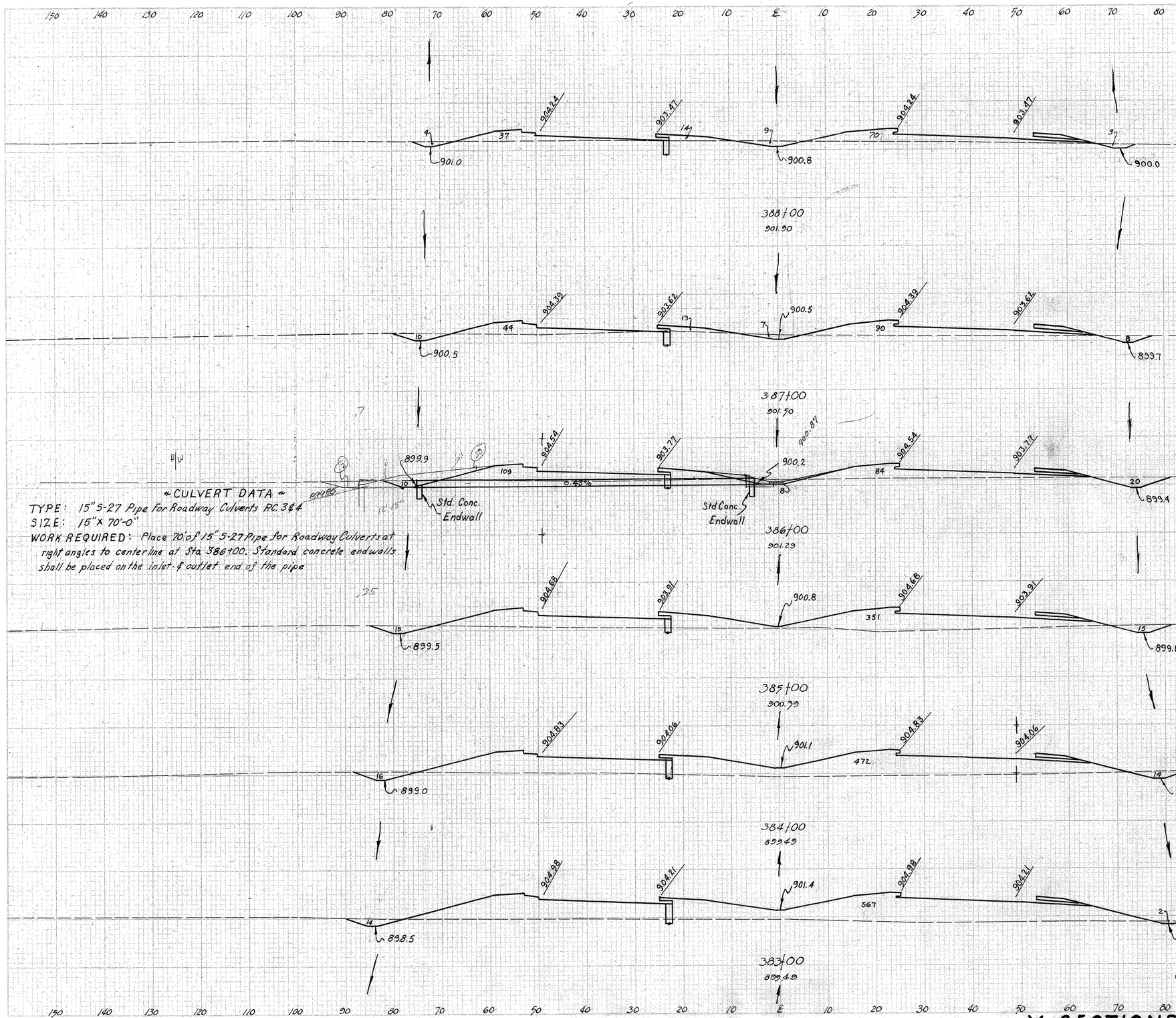
	End Area		Volume	
	Cut	Fill	Cut	Fill
	23	652		
			48	2819
	3	870		
			83	2933
	42	714		
			131	2204
	29	476		
			91	2022
	20	616		
			109	1972
	39	449		
			139	1219
Sta 376+00	36	209		

X-SECTIONS STA. 377+00 TO STA 382+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

85
466

AUGLAIZE COUNTY
AUG-25-5.05



Excavation 2,563 Cu.Yd
Embankment 2081 Cu.Yd
Emb. 15% 23,085 Cu.Yd.

	End Area		Volume	
	Cut	Fill	Cut	Fill
	16	121		
			76	496
	25	147		
			117	648
	38	193		
			126	1007
	30	351		
			111	1524
	30	472		
			85	1924
	16	567		
			72	2258
Sta 382+00	23	652		

* CULVERT DATA *

TYPE: 15" S-27 Pipe for Roadway Culverts PC 344
SIZE: 15" X 70'-0"
WORK REQUIRED: Place 70' of 15" S-27 Pipe for Roadway Culverts at right angles to centerline at Sta 386+00. Standard concrete endwalls shall be placed on the inlet & outlet end of the pipe

* ESTIMATED QUANTITIES *

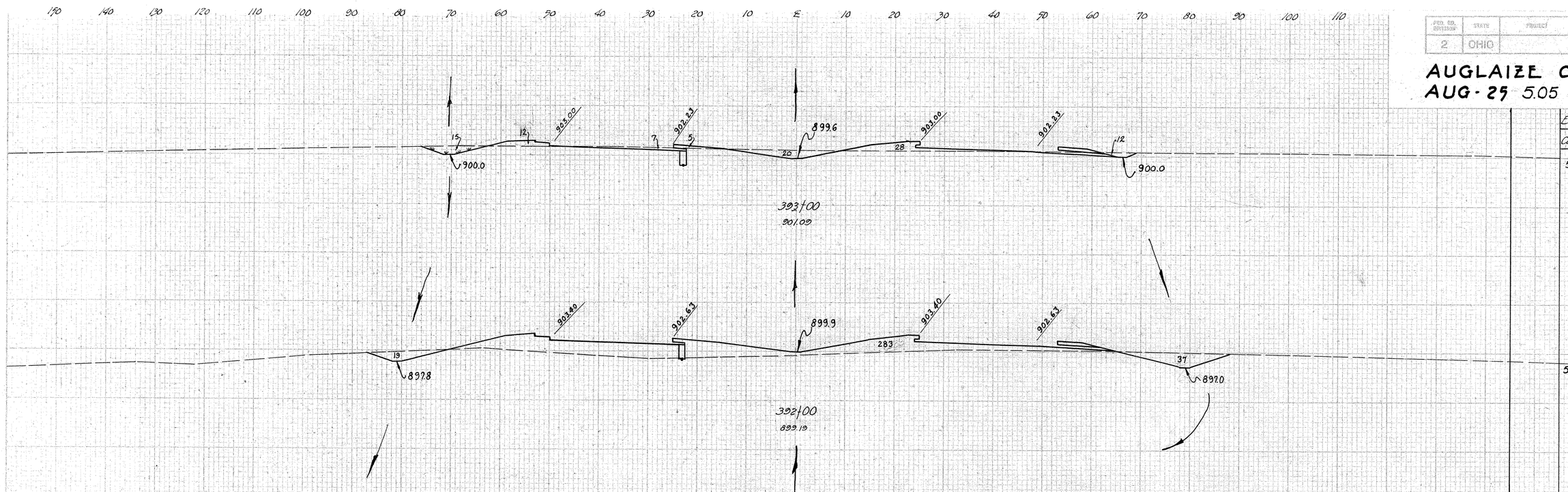
Item E-2 Excavation for Structures	9 Cu.Yd.
Item S-1 Concrete for Structures Class "E"	0.5 Cu.Yd
Item S-27 15" Pipe for Roadway Culverts Sec. M-6.8 (b) or Sec. 6.6 (b)	70 Lin Ft

X-SECTIONS STA. 383+00 TO STA. 388+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

86
466

AUGLAIZE COUNTY
AUG-25 5.05



	End Area		Volume	
	Cut	Fill	Cut	Fill
	54	45		
			204	607
	56	283		
			104	2250
	0	932		
			70	2758
	38	557		
			244	1183
	94	82		
			204	376
Sta 388+00	16	121		

X-SECTIONS STA 389+00 TO STA. 393+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

87
466

AUGLAIZE COUNTY
AUG-25-5.05

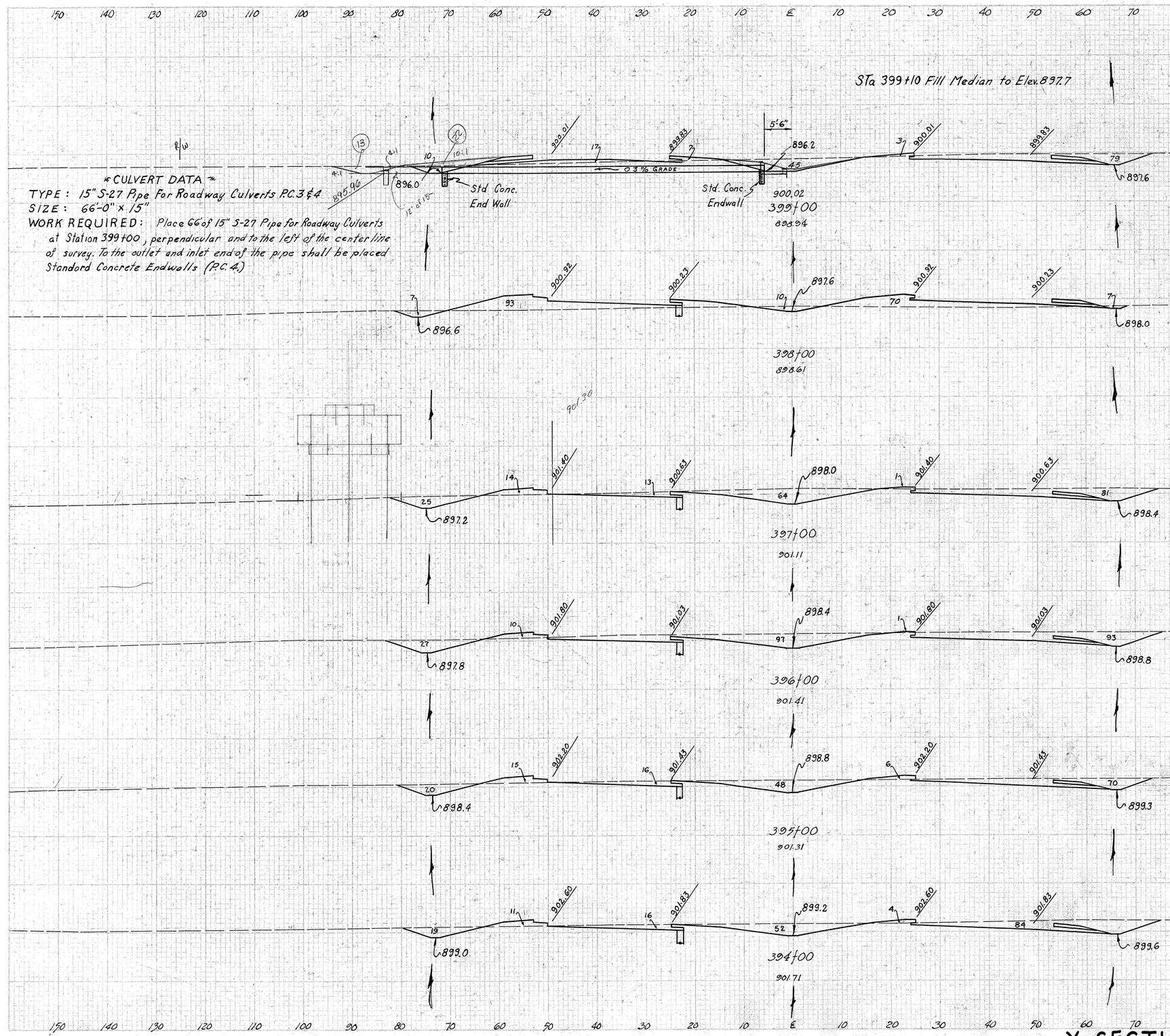
Sta 399+10 Fill Median to Elev. 897.7

*** CULVERT DATA ***

TYPE : 15" S-27 Pipe for Roadway Culverts P.C. 3 & 4
SIZE : 66'-0" x 15"
WORK REQUIRED : Place 66' of 15" S-27 Pipe for Roadway Culverts at Station 399+00, perpendicular and to the left of the center line of survey. To the outlet and inlet end of the pipe shall be placed Standard Concrete Endwalls (P.C. 4.)

*** ESTIMATED QUANTITIES ***

Item E-2	Excavation for Structures	15 Cu. Yd.
Item S-1	Concrete for Structures Class "E"	0.5 Cu. Yd.
Item S-27	15" Pipe for Roadway Culverts Sec M-6.8(b) or Sec M 6.6(b)	6.6 Lin. Ft.



Sta	End Area Cut	End Area Fill	Volume Cut	Volume Fill
399+00	134	27		
			293	352
398+00	24	163		
			383	330
397+00	183	15		
			741	48
396+00	217	11		
			687	59
395+00	154	21		
			602	67
394+00	171	15		
			417	111
393+00	54	45		

X-SECTIONS STA. 394+00 TO STA. 399+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

88
466

AUGLAIZE COUNTY
AUG-25-5.05

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 E 10 20 30 40 50 60 70 80 90 100 110

894.8
537
894.2
897.62
405+00
899.53
895.2

895.2
357
894.5
898.02
404+00
898.44
895.6

895.6
538
894.8
898.42
403+00
899.84
896.0

896.0
413
895.1
898.82
402+00
899.44
896.4

896.4
350
895.4
899.22
401+00
899.84
896.8

Sta. 400+25 ℄ Median Cross-Over

896.8
324
895.7
899.62
400+00
899.84
897.2

	End Area		Volume	
	Cut	Fill	Cut	Fill
537	0			
			1656	0
357	0			
			1657	0
538	0			
			1761	0
413	0			
			1413	0
350	0			
			1248	0
324	0			
			848	50
Sta 399+00	134	27		

Excavation 14,625 Cu Yd
Embankment 3337 Cu Yd
Emb. 15% 3838 Cu Yd

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 E 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

X-SECTIONS STA. 400+00 TO STA. 405+00

PER. DIV.	STATE	PROJECT		
2	OHIO			

89
466

AUGLAIZE COUNTY
AUG-25-5.05

CULVERT DATA
TYPE : 15" S-27 Pipe for Roadway Culverts. P.C. 3&4
SIZE : 15" × 70'-0"
WORK REQUIRED : Place 70' of 15" S-27 pipe for roadway culverts at right angles at Sta. 410+00, with Standard concrete Endwalls on inlet & outlet ends, as shown.

ESTIMATED QUANTITIES
ITEM E-2 Excavation for Structures 19 cuyds
ITEM S-1 Concrete for Structures Class E 0.5 Cuyd.
ITEM S-27 15" Pipe for Roadway Culverts 70 Lin Ft
Sec. M-6.8(b) or Sec. M-6.6(b)

Flt El. 892.0 — 892.0 — 0.43% — Std. Conc. Endwall — Std. Conc. Endwall — Flt El. 892.3 — 892.3 — 892.1
110 — 3 — 47 — 57 — 62

896.30
410+00
895.59

Sta 409+10 Fill Median to Elev. 893.6

CULVERT DATA
TYPE : 15" S-27 Pipe for Roadway Culverts, P.C. 3&4
SIZE : 15" × 72'-0"
WORK REQUIRED : Place 72' of 15" S-27 pipe for Roadway culverts at right angles at Sta. 409+00, with Standard concrete Endwalls on inlet and outlet ends, as shown.

ESTIMATED QUANTITIES
ITEM E2 Excavation for Structures 18 Cu.yd
ITEM S-1 Concrete for Structures Class E 0.5 cuyd
ITEM S-27 15" pipe for Roadway Culverts 72 lin ft.
Sec. M-6.8(b) or Sec. M-6.6(b)

Flt Elev-891.7 — 35 — Std Conc. Endwall — 0.56% — Std. Conc. Endwall — Flt Elev 892.1 — 892.1 — 891.8
40 — 10 — 73 — 46

896.32
409+00
893.43

892.8 — 893.8 plus — 516 — 53 — 516
32 — 888.1 — 21 — 8892

896.44
408+25
891.03

893.3 — 116 — 1 — 303 — 48 — 889.0
14 — 891.2

896.57
407+80
893.63

894.0 — 230 — 894.5
16 — 893.6

896.82
407+00
896.93

894.4 — 281 — 894.8
32 — 893.9

897.22
406+00
897.73

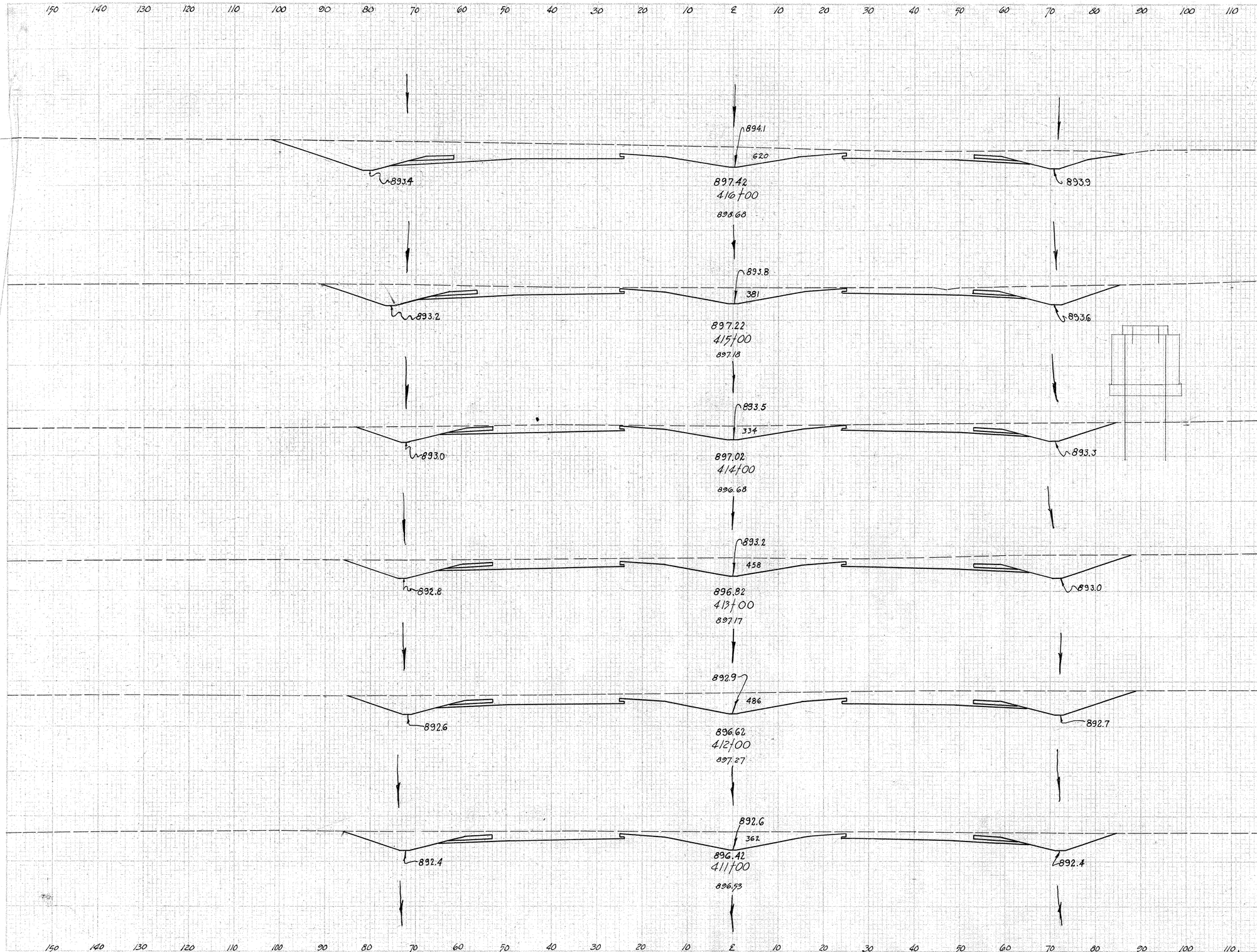
Sta	End Area Cut	End Area Fill	Volume Cut	Volume Fill
	219	8		
			574	224
	91	113		
			200	874
	53	516		
			97	779
	63	419		
			458	621
	246	0		
			1035	0
	313	0		
			1574	0
Sta 405+00	537	0		

X-SECTIONS STA. 406+00 TO STA. 410+00

REG. NO. DIVISION	STATE	PROJECT	
2	OHIO		

90
466

AUGLAIZE COUNTY
AUG-25-5.05



	End Area		Volume	
	Cut	Fill	Cut	Fill
	620	0		
			1854	0
	381	0		
			1324	0
	334	0		
			1467	0
	458	0		
			1748	0
	486	0		
			1570	0
	362	0		
			1076	15
Sta 410+00	219	8		

X-SECTIONS STA. 411+00 TO STA. 416+00

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

91
466

AUGLAIZE COUNTY
AUG - 25-5.05

Included in Ramp "D"

894.8 — 648 — 895.2

897.62
422+00
900.17

8980

Included in Ramp "D"

895.0 — 350 — 895.4

897.86
421+00
898.87

Included in Ramp "D"
Quantities Ahead

895.3 — 408 — 895.1

207

894.2

897.97
420+00
899.47

895.0 — 649 — 894.8

894.2

897.96
419+00
899.57

894.7 — 712 — 894.5

893.8

897.82
418+00
899.52

894.4 — 625 — 894.2

893.6

897.62
417+00
898.72

	End Area Cut	End Area Fill	Volume Cut	Volume Cut
	648	0		
			1848	0
	350	0		
			1404	0
Ahead	408	0		
Back	615	0		
			2341	
	649	0		0
			2521	0
	712	0		
			2476	0
	625	0		
			2306	0
Sta 416+00	620	0		

Excavation	30433	Cu Yd
Embankment	15	Cu Yd
Emb.	15%	Cu Yd

X-SECTIONS STA. 417+00 TO STA. 422+00

FED. HWY. DIVISION	STATE	PROJECT	
2	OHIO		

92
466

AUGLAIZE COUNTY
AUG - 25 - 5.05

	End Area		Volume	
	Cut	Fill	Cut	Fill
	185	10		
			1063	178
	389	86		
			1869	159
	620	0		
			3191	0
Ahead	755	0		
Back	1076	0		
			2207	0
	910	0		
			3828	0
	865	0		
			2463	0
Sta 422+00	648	0		

Included in Ramp "A"

120 — 890.7 — 893.0 — 27 — 38 — 890.6

895.82
428+00
894.50

Included in Ramp "B"

12 — 891.0 — 893.3 — 86 — 377 — 890.8 — ½":1'-7"

896.12
427+00
895.40

Included in Ramp "B"

½":1'-7" — 892.0 — 893.6 — 620 — 894.0

89642
426+00
897.20

Included in Ramp "B" Ahead.

Included in Ramp "D"

½":1'-7" — 893.0 — 894.0 — 755 — 894.3 — 321 — 892.6

896.79
424+76.47
899.70

Included in Ramp "D"

½":1'-7" — 894.0 — 894.2 — 910 — 893.4

896.97
424+16.47
899.17

Included in Ramp "D"

½":1'-1" — 894.9 — 894.5 — 865 — 894.98

897.32
423+00
900.37

X-SECTIONS STA. 423+00 TO STA. 428+00

FED. ROAD DIVISION	STATE	PROJECT		93
2	OHIO			466

AUGLAIZE COUNTY
AUG-25-5.05

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110

Included in Ramp "C" Quantities

CULVERT DATA (STA. 434+50)

TYPE : 15" S-27 Pipe for Roadway Culverts, P.C. 3 #4
SIZE : 15" x 88'-0"
WORK REQUIRED : Place 88' of 15" S-27 pipe for Roadway Culverts at right angles at Sta. 434+50, with Std. 1-2A Catch Basin at inlet end and Std. Concrete Endwall at outlet end as shown.

15" S-27 Pipe Culvert Sta. 434+50

891.2
Rt. Grate Elev. 891.1
20'
4'
Rt Elev. 888.5
0.67%
Rt. Elev. 889.0
888.5
894.20
434+00
896.95

Included in Ramp "C"

891.5
680
891.0
894.34
433+00
896.75
888.81
Prop. Twin 30" S-27

Included in Ramp "C"

891.8
875
889.1
894.62
432+00
898.05
889.11
Prop. Twin 30" S-27

Included in Ramp "C"

892.1
1243
889.5
894.92
431+00
897.91
4'
4:1
889.4

Sta 430+10
Fill Median to Elev. 894.0

892.4
Rt Grate 892.3
767
Prop 21" S-27
889.91
Rt 890.3
15" S-27 Pipe Culvert
0.65 %
4'
4:1
889.7
895.27
430+00
896.50

CULVERT DATA

TYPE : 15" S-27 Pipe for Roadway Culverts P.C. 3 #4
SIZE : 15" x 92'
WORK REQUIRED : Build 15" S-27 Pipe Culvert with Std. 1-2-A Catch Basin on Lt. and Std. endwall on Rt.

ESTIMATED QUANTITIES (STA 434+50)

ITEM E-2 Excavation For Structures	32 Cu.yds
ITEM I-8 Std. No. 1-2A Catch Basin	1 each
ITEM S-1 Concrete for Structures Class E	2.60 Cu.yds
ITEM S-27 15" Pipe for Roadway Culverts Sec. M-6.8(b) or Sec. M-6.6(b)	88 Lin Ft.

ESTIMATED QUANTITIES

ITEM E-2 Excavation for Structures	32 Cu Yds
ITEM I-8 Std. No 1-2-A Catch Basin	1 Each
ITEM S-1 Concrete for Structures Class E	0.26 Cu Yds
ITEM S-27-15" Pipe for Roadway Culvert Sec M-6.8(b) or Sec M-6.6(b)	90 Lin Ft

Included in Ramp "A" Back Only

See S.R. 67 Quantities

892.7
480
Prop. 21" S-27
890.31
895.52
429+00
897.30
312
4:1
890.0

Excavation 3430 Cu Yd.
Embankment 2741 Cu Yd.
Emb. 15% 3652 Cu Yd.

	End Area		Volume	
	Cut	Fill	Cut	Fill
	703	0		
			2561	0
	680	0		
			2880	0
	875	0		
			3923	0
	1243	0		
			3723	0
	767	0		
			2887	0
	792	0		
			1809	19
Sta 428+00	185	10		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

X-SECTIONS STA. 429+00 TO STA 434+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

94
466

AUGLAIZE COUNTY
AUG-25-5.05

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110

172 — 886.3 — 49 — 14 — 891.9 — 65 — 3:1 — 4' — 143 — 886.7

895.66
440+00
893.22

886.7 — 87 — Grate ⌭ Elev. 891.6 — 380 — 0.5% — ⌭ Elev. 887.44 — 4' — 144 — 887.0

895.33
439+00
890.52

CULVERT DATA
TYPE : 15" S-27 Pipe for Roadway Culverts. PC. 384
SIZE : 15" x 88'-0"
WORK REQUIRED : Place 88' of 15" S-27 Pipe for Roadway Culverts at right angles at Sta. 439+00 with Std. Conc. Endwall on outlet end and Std No. 1-2-A Catch Basin on inlet end as shown.

Sta 438+90
Fill Median to Elev. 893.1

ESTIMATED QUANTITIES

ITEM E-2	Excavation for Structures	93 Cuyds
ITEM I-8	Standard No. 1-2-A Catch Basin	1 each
ITEM S-1	Concrete for Structures Class E	26 Cuyds
ITEM S-27	15" Pipe for Roadway Culverts Sec. M-86(b) or Sec. M-66(b)	88 lin. Ft

86 — 887.0 — 189 — 892.2 — 4' — 229 — 887.3

895.01
438+00
891.84

132 — 887.3 — 12 — 5 — 891.8 — 550 — 4' — 887.6

894.68
437+00
893.94

223 — 887.6 — 1 — 891.5 — 4' — 400 — 887.9

894.38
436+00
894.54

Included in Ramp "C" Quantities Back

288 — Ahead — 891.2 — 594 — 4' — 888.2

894.21
435+00
895.25

887.9

	End Area Cut	End Area Fill	Volume Cut	Volume Fill
	329	114		
			1037	915
	231	380		
			1011	1054
	315	189		
			1848	381
	683	17		
			2419	33
	623	1		
			1687	2
Ahead	288			
Back	594	0		
			2402	0
Sta 434+00	703	0		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

X-SECTIONS STA. 435+00 TO STA. 440+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	/	

95
466

AUGLAIZE COUNTY
AUG-25-5.05

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 **℄** 10 20 30 40 50 60 70 80 90 100 110

446+00 — 897.11 — 891.03

893.7 — 660 — 270 — 3:1 — 2.5:1 — 12 — 884.3 — 883.0

445+00 — 895.73

893.4 — 38 — 70 — 70 — 37 — 3:1 — 4:1 — 146 — 884.8 — 38 — 884.3

444+00 — 894.92

893.1 — 23 — 23 — 11 — 162 — 3:1 — 325 — 885.1 — 885.1

443+00 — 894.72

892.8 — 23 — 56 — 28 — 320 — 3:1 — 230 — 885.4 — 885.8

442+00 — 896.22

892.5 — 75 — 435 — 3:1 — 349 — 885.7 — 886.1

441+00 — 895.32

892.2 — 58 — 2 — 3 — 303 — 3:1 — 275 — 886.0 — 886.4

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 **℄** 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

	End Area		Volume	
	Cut	Fill	Cut	Fill
	282	660		
			1063	1357
	292	73		
			1485	198
	510	34		
			2006	237
	573	94		
			2652	176
	859	1		
			2769	11
	636	5		
			1789	220
Sta 440+00	329	114		

X-SECTIONS STA. 441+00 TO STA. 446+00

FED. ROAD DIVISION	STATE	PROJECT		96
2	OHIO			466

AUGLAIZE COUNTY
AUG-25-5.05

CULVERT DATA
Sta 450+48
TYPE: 15" S-27 Pipe for Roadway Culverts P.C. 3 & 4
SIZE: 88'-0" x 15"
WORK REQUIRED: Prop median outlet to the left and at right angles to Sta 450+48. The median drainage structure shall be constructed as shown at right. As shown two I:5 pipe specials for S-27 pipe shall be used. L-10 Sodding shall be used at the outlet for erosion control.

Item L-10 Sodding (9'x6') = 6 Sq.Yd.

Sodding Detail
Scale 1"=5'-0"

Class "E" Concrete Collar. Cost included in unit price bid for S-27, 15" M-6.6(b) or M-6.8(b) pipe.

Sta 450+48-1-2 AC.B
Grate F.L. = 892.87

1% Grade

Sta 450+48
* ESTIMATED QUANTITIES *

Item E-2	Excavation for Structures	5 Cu.Yd
Item I-5	15"x30° Pipe Specials for S-27 Pipe, M-4.4(d)	2 Each
Item I-8	Standard No. 1-2A Catch Basin	1 Each
Item L-10	Sodding	6 Sq.Yd
Item S-1	Concrete for Structures Class "E"	0.26 Cu.Yd
Item S-27	15" Pipe for Roadway Culverts Sec. M-6.8(b) or Sec. M-6.66(b)	65 Lin.Ft.

Item S-27 15" Pipe for Roadway Culverts-Sec M-6.4(d) 23 Lin Ft

I-10 Dumped Rock Fill

Sta 448+60 Add For Dr. Under Bridge

Drive Profile

Ahead Only

Back Only

To be used for Earthwork Only

Back of Abutement (Projected Section)

Note: See Channel Sections for Quantities

Excavation 1305 Cu.Yd
Embankment 3331 Cu.Yd
Emb 15% 3831.5 Cu.Yd

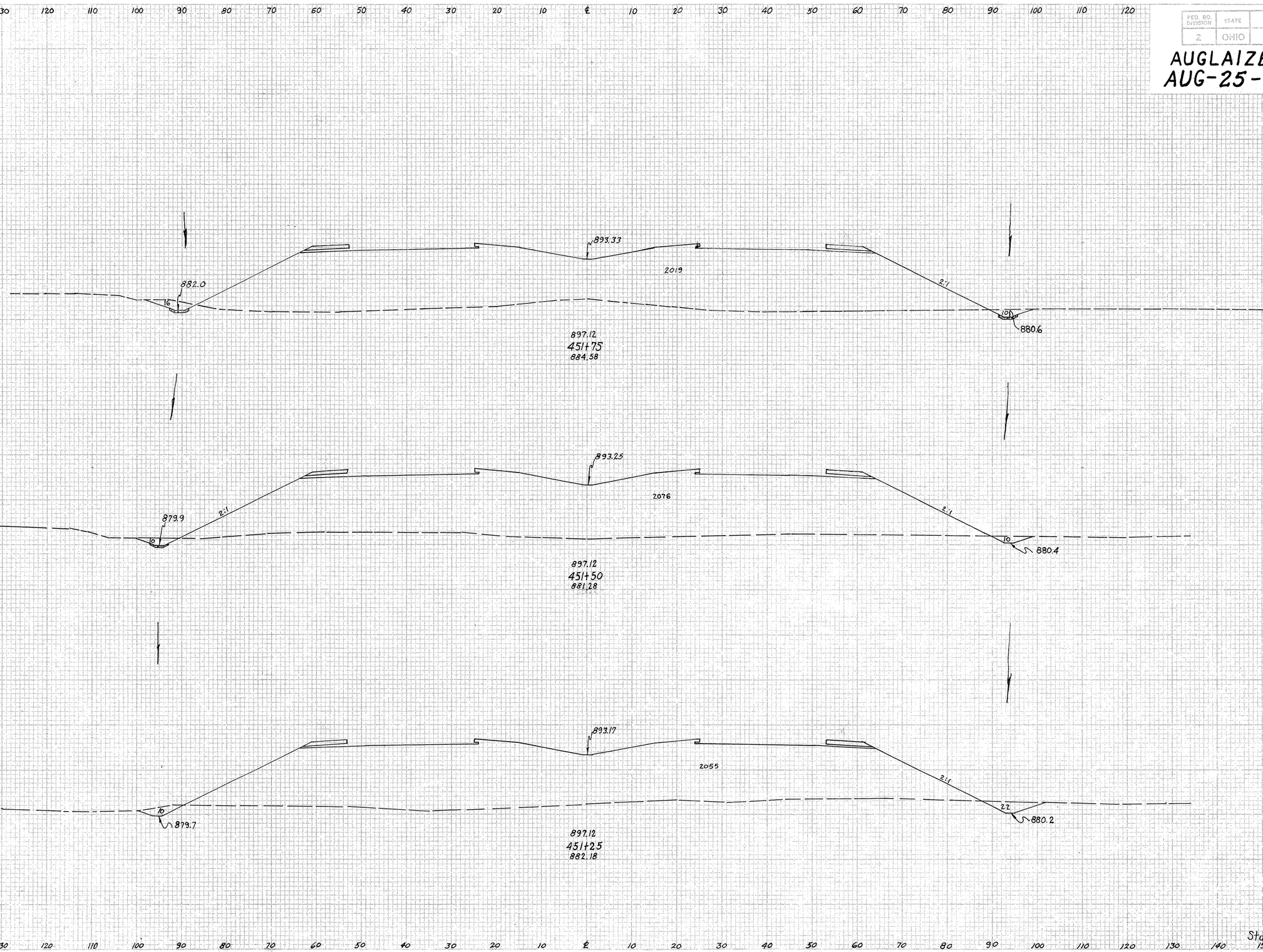
	End Area		Volume	
	Cut	Fill	Cut	Fill
	42	1915		
			196	7163
	64	1953		
			42	0
			14	470
	60	2175		
	86	2071		
			58	1391
	78	1851		
			176	6736
	17	1786		
			554	4530
Sta 446+00	282	660		

X-SECTIONS STA. 447+00 TO STA. 451+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

97
466

AUGLAIZE COUNTY
AUG-25 - 5.05



Sta	End Area Cut	End Area Fill	Volume Cut	Volume Fill
451+00	42	1915		
			34	1838
	32	2055		
			24	1913
	20	2076		
			2.1	1896
	26	2019		

X-SECTIONS STA 451+25 TO STA 451+75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

98
466

AUGLAIZE COUNTY
AUG-25- 5.05

* CULVERT DATA *

TYPE: 15"S-27 Pipe for Roadway Culverts (P.C.3 #4)

SIZE: 15"x 72'-0"

WORK REQUIRED: Place 72' of 15" S-27 Pipe for Roadway Culverts at right angles to the centerline at Sta 455+00. The inlet & outlet shall have standard concrete endwalls as shown.

ESTIMATED QUANTITIES

Item E-2	Excavation for Structures	19 Cu Yd
Item S-1	Concrete for Structures Class "E"	0.5 Cu Yd
Item S-27	15" Pipe for Roadway Culverts Sec. M-6.8 (b) or Sec. M-6.6 (b)	72 Lin. Ft.

Sta	End Area Cut	End Area Fill	Volume Cut	Volume Fill
451+75	26	2019		
			24	1748
	26	1756		
			21	1278
	20	1005		
			137	1590
	79	140		
			346	393
	108	72		
			487	172
	155	21		
			428	174
	76	73		

X-SECTIONS STA 452+00 TO STA. 456+00

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

99
466

AUGLAIZE COUNTY
AUG-25-5.05

	End Area		Volume	
	Cut	Fill	Cut	Fill
	18	567		
			78	1374
	24	175		
			102	461
	31	74		
			111	243
	29	57		
			89	417
	19	168		
			98	559
	34	134		
			204	409
Sta 456+00	76	87		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

895.7
3 892.2
567
3 890.0

898.52
462+00
893.07
25 895.7
895.3
2
41
134
2.0 892.0

898.12
461+00
895.77
5 895.0
894.9
7
30
44
19 893.0

897.73
460+00
895.67
9 894.0
894.6
12
33
24
6 894.2

897.43
459+00
895.57
10 893.3
894.3
2
70
98
7 893.2

897.23
458+00
894.77
11 892.7
894.0
5
74
60
18 892.9

897.13
457+00
894.87

X-SECTIONS STA. 457+00 TO STA. 462+00

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

100
466

AUGLAIZE COUNTY
AUG-25-5.05

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 **℄** 10 20 30 40 50 60 70 80 90 100 110

898.1
894.0 — 161 — 4' — 143 — 160 — 897.3

900.92
468+00
899.96

897.7 — 117 — 64 — 467+80
893.4 — 28 — 4' — 157 — 897.0

900.52
467+00
898.76

897.3 — 346 — 896.0
892.6 — 17 — 4'

900.12
466+00
896.26

896.9 — 544 — 18 — 894.0
891.8 — 30 — 4'-0

899.72
465+00
894.06

896.5 — 725 — 15 — 891.0
890.3 — 40

Sta. 463+39
Fill Median to Elev. 897.4

899.32
464+00
892.36

896.1 — 720 — 15 — 890.0
891.2 — 16

898.92
463+00
892.46

End Area		Volume	
Cut	Fill	Cut	Fill
176	143		
		517	556
103	157		
		235	931
24	346		
		133	1648
48	544		
		191	2350
55	725		
		159	2676
31	720		
		91	2383
Sta 462+00	18	567	

	Cu Yd	Cu Yd	Cu Yd
Excavation	6116		
Embankment	14446		
Emb 15%	6613		

X-SECTIONS STA. 463+00 TO STA. 468+00

If Park is Constructed			
End Area		Volume	
Cut	Fill	Cut	Fill
1390	14		
		5584	52
1625	14		
		5667	52
1435	14		
		4624	52
1062	14		
		3263	39
700	7		
		2346	26
567	7		
		1376	278
176	143		

AUGLAIZE COUNTY
AUG - 25 - 5.05

Add for Park

900.4 — 4' — 4' — 900.8

903.32
474+00
907.78

900.5 — 987 — 900.8 — 899.1

Add for Park

900.1 — 4' — 4' — 900.5

902.92
473+00
908.88

900.1 — 1300 — 900.5 — 898.8

Add for Park

899.8 — 4' — 4' — 900.1

902.52
472+00
909.21

899.7 — 1170 — 900.1 — 898.5

Add for Park

899.5 — 4' — 4' — 899.7

902.12
471+00
906.21

898.5 — 976 — 898.2

Add for Park

899.3 — 4' — 898.9 — 641 — 897.9

901.72
470+00
904.21

Add for Park

898.9 — 4' — 585 — 897.6

901.32
469+00
903.31

Sta 468+00

Sta 470+90
Fill Median to Elev 900.00

Std. Conc. Endwalls

Std. Conc. Endwalls

End of Structure if Park is Constructed

Sta 468+00

CULVERT DATA

TYPE: 15" S-27 Pipe for Roaday Drainage P.C. 3#4
SIZE: 15" X66'-0"
WORK REQUIRED: Place 66 of 15" S-27 Pipe at right angles to the center line at Sta. 471+00. The inlet and outlet ends shall be provided with Standard concrete endwalls as shown. If Park is Constructed see Detail

ESTIMATED QUANTITIES

Item E-2 Excavation for Structures	16	Cu.Yd
Item S-1 Concrete for Strutures Class "E"	0.5	Cu.Yd
Item S-27 15" Pipe for Roaday Culverts Sec M-6.8(b) or Sec M6.6(b)	66	Lin. Ft.

To Roadside Park Quantities: 2 Cu.Yd — 10 Lin.Ft.

End Area		Volume	
Cut	Fill	Cut	Fill
987	0		
		4235	0
1300	0		
		4574	0
1170	0		
		3974	0
976	0		
		2995	0
641	0		
		2271	0
585	0		
		1409	265
176	148		

Sta 468+00

X-SECTIONS STA 469+00 TO STA. 474+00

If Park Constructed			
End Area		Volume	
Cut	Fill	Cut	Fill
4793	7		
		15048	26
3333	7		
		12318	39
3310	14		
		10850	52
2540	14		
		7929	52
1742	14		
		5647	52
1307	14		
		4995	52
1390	14		

PER. NO. DIVISION	STATE	PROJECT		102 468
2	OHIO			

AUGLAIZE COUNTY
AUG-25-5.05

Add for Park 2:1 — ℄ 901.9 — 902.6

905.37
480+00
917.32

2675

902.3 — 902.6

Add for Park 150 160 170 180 190 200 210 220 230

End Area		Volume	
Cut	Fill	Cut	Fill
2675	0		
		10139	0

Add for Park 2:1 — ℄ 901.7 — 902.3

2800

902.0

905.23
479+00
917.92

902.3 — Add for Park — ℄ 911.0

2800	0		
		10250	0

Add for Park 2:1 — ℄ 901.5 — 902.0

2735

901.7

904.92
478+00
417.62

902.0 — Add for Park — ℄ 908.5

2735	0		
		8768	0

Excavation 82886 Cu Yd 4 Cu Yd
Embankment 5 Cu Yd
Emb. 15%

Add for Park — ℄ 901.3 — ℄ 901.7

2000

901.4

904.52
477+00
913.48

901.7 — 4:1 — Add for Park — ℄ 905.5

2000	0		
		6326	0

Add for Park — A — A — 4:1 — ℄ 901.0 — ℄ 901.4

1-10 Dumped Rock Fill 23 Cu Yds

1400

901.1

904.12
476+00
910.28

901.4 — 4:1 — Add for Park — ℄ 902.5

1416	0		
		4298	0

8'-0" — 2' — 3:1 — 3:1 — 1'-6"

SECTION A-A

Add for Park — ℄ 908.5 — 4' — ℄ 900.7 — 4' — ℄ 901.1

900

900.8

903.72
475+00
907.18

901.1 — 4:1 — Add for Park — ℄ 899.4

905	0		
		3504	0

Sta 474+00 — Sta 474+00 — 987 — 0

X-SECTIONS STA. 475+00 TO STA. 480+00

If Park Section is Constructed			
End Areas		Volume	
Cut	Fill	Cut	Fill

FED. AID PROJECT NO.	STATE	PROJECT	
2	OHIO		

103
466

AUGLAIZE COUNTY
AUG-25-5.05

End Area		Volume	
Cut	Fill	Cut	Fill
93	44		
		985	85
439	2		
		2091	4
690	0		
		2735	0
787	0		
		4023	0
1385	0		
		6293	0
2013	0		
		8681	0
2675	0		

Add for Park
128 378
1761 720
Add for Park
823 11
4021 185
Add for Park
1348 89
5071 226
1390 33
6256 74
Add for Park
1988 7
9020 26
Add for Park
2883 7
14215 26
4793 7

Sta 480+00

Add for Park
Add to Roadside Park Quantities

Excavation	124,648 Cu.Yds.
Embankment	35,461 Cu.Yds.
Embankment 15%	4,780 Cu.Yds.

Excavations: Mainline + Roadside Park = 124,648 Cu.Yd.
- Main Line = 88,261 Cu.Yd.
Total = 36,387 Cu.Yd.

Embankment: Mainline + Roadside Park = 35,461 Cu.Yd.
Mainline = 29,938 Cu.Yd.
Total = 5,523 Cu.Yd.

Embank. 115% Mainline + Roadside Park = 40,780 Cu.Yd.
Mainline = 34,429 Cu.Yd.
Total = 6,351 Cu.Yd.

~ Earthwork Calculations ~
Excavation Available = 36,387 Cu.Yd.
1-4 Trench Excavation (2065x4.6'x 15/12÷27) - 490 Cu.Yd.
Total= 36,877 Cu.Yd.
Total Embank. 115% 6351 Cu.Yd.
Total Excavation to reduce Borrow forwarded to U.S.25 Calculations } 30,526 Cu.Yd.

486+00 902.40
485+00 905.00
484+00 906.80
483+00 907.94
482+00 911.04
481+00 914.84

Sta 480+00

X-SECTIONS STA 481+00 TO STA 486+00

PROJ. NO. DIVISION	STATE	PROJECT		
2	OHIO			

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466

AUGLAIZE COUNTY
AUG-25-5.05

If Park Section is Constructed			
End Area		Volume	
Cut	Fill	Cut	Fill
15	982		
		54	3884
14	1115		
		44	4200
10	1153		
		96	3919
42	963		
		2013	1826
1045	23		
		1991	1889
30	997		
		293	2545
128	378		

Add for Park
902.34
901.93
899.3
901.34
901.93
852
894.6
894.6
492+00
894.99

Add for Park
902.64
902.23
899.6
902.64
902.23
986
894.9
894.9
893.0
491+00
894.49

Add for Park
902.94
902.53
899.9
902.94
902.53
1050
896.40
893.0
893.0
Sta 490+20
Fill Median to Elev. 901.3
490+00
893.71

Add for Park
903.24
901.83
900.2
903.24
902.83
840
894.6
894.6
19
894.0
489+00
896.41

Add for Park
903.54
903.13
900.5
903.54
903.13
574
895.8
2.0
896.5
896.5
488+00
898.61

Add for Park
903.84
901.43
900.8
903.84
903.43
145
900.8
7
6
94
898.1
22
898.0
487+00
901.71

Sta 486+00

Sta 486+00

End Area		Volume	
Cut	Fill	Cut	Fill
7	852		
		24	3404
6	986		
		26	3771
8	1050		
		67	3500
28	840		
		102	2619
27	574		
		115	1506
35	239		
		237	524
93	44		

X-SECTIONS STA. 487+00 TO STA. 492+00

AUGLAIZE COUNTY
AUG-25-5.05

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 E 10 20 30 40 50 60 70 80 90 100 110

If Pork Section is Constructed			
End Area		Volume	
Cut	Fill	Cut	Fill
0	445		
		15	1987
8	628		
		41	2513
14	729		
		39	3561
7	1194		
		28	3750
8	831		
		43	3358
15	982		

Sta 492+00

498+00 895.99
900.54 | 900.13 | 897.0 | 900.54 | 900.13
710
894.2 | 892.0
900.84 | 900.43 | 897.8 | 900.84 | 900.43
445
896.5

497+00 896.09
901.14 | 900.73 | 898.1 | 901.14 | 900.73 — Add for Park
610
894.3

496+00 895.09
901.44 | 901.03 | 898.4 | 901.44 | 901.03 — Add for Park
711
893.9

495+00 894.79
Add for Park — 901.74 | 901.33 | 898.7 | 901.74 | 901.33 — Add for Park
1108
893.5

494+00 892.79
Add for Park — 902.04 | 901.63 | 899.0 | 902.04 | 901.63 — Add for Park
773
894.3 | 894.3

493+00 895.49

End Area		Volume	
Cut	Fill	Cut	Fill
11	710		
		20	2139
0	445		
		15	1954
8	610		
		41	2446
14	711		
		33	3369
4	1108		
		22	3483
8	773		
		28	3008
7	852		

Excavation 1919 Cu.Yd.
Embankment 35,530 Cu.Yd.
Emb 15% 40860 Cu.Yd.

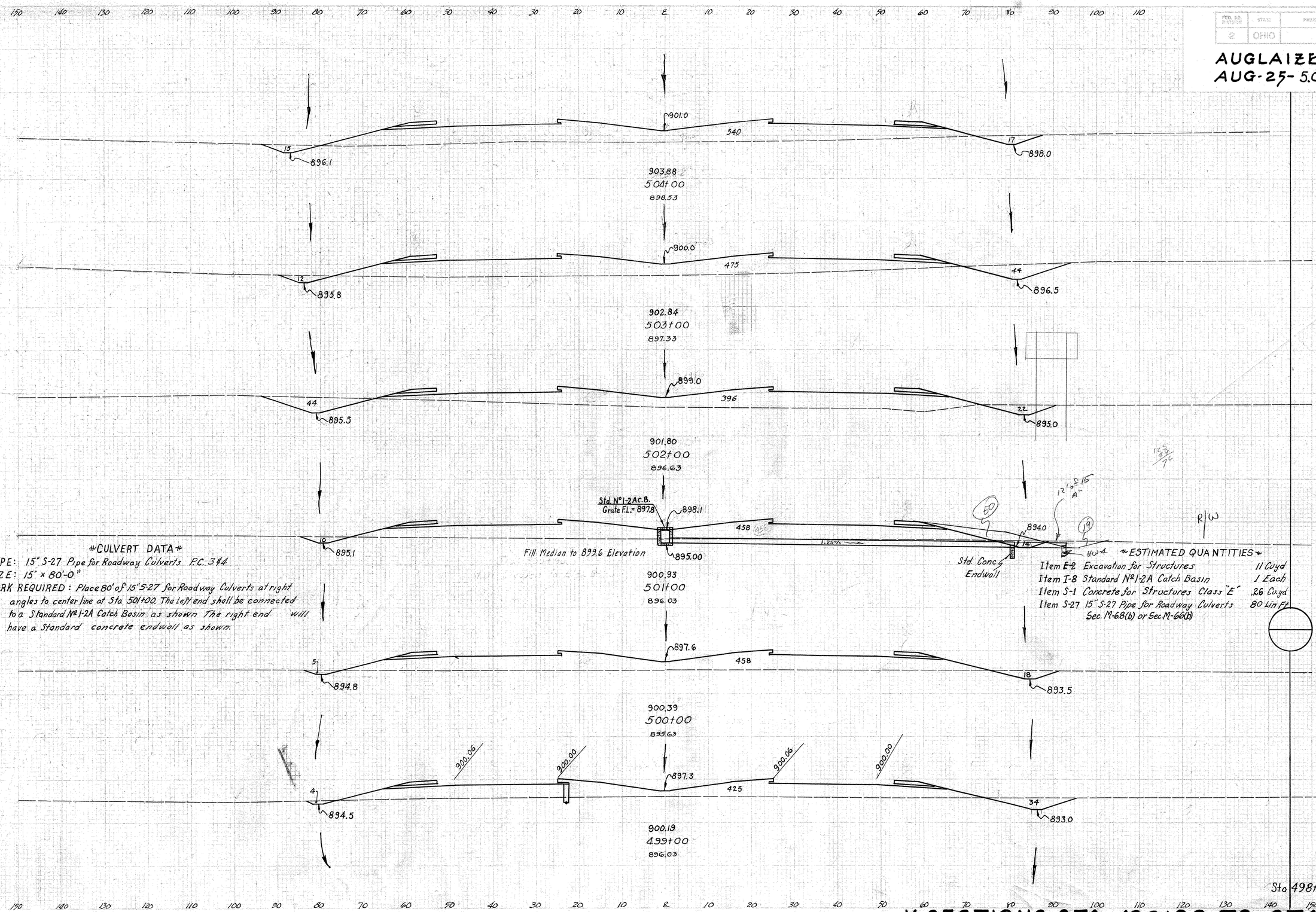
Sta 492+00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 E 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

X-SECTIONS STA. 493+00 TO STA. 498+00

FED. ROAD DIVISION	STATE	PROJECT		106 466
2	OHIO			

AUGLAIZE COUNTY
AUG-25-5.05



	End Area		Volume	
	Cut	Fill	Cut	Fill
	32	540		
			163	1880
	56	475		
			226	1613
	66	396		
			167	1581
	24	458		
			87	1681
	23	450		
			113	1620
	38	425		
			91	2102
	11	710		

CULVERT DATA

TYPE: 15" S-27 Pipe for Roadway Culverts P.C. 344

SIZE: 15" x 80'-0"

WORK REQUIRED: Place 80' of 15" S-27 for Roadway Culverts at right angles to center line at Sta. 501+00. The left end shall be connected to a Standard N°1-2A Catch Basin as shown. The right end will have a Standard concrete endwall as shown.

ESTIMATED QUANTITIES

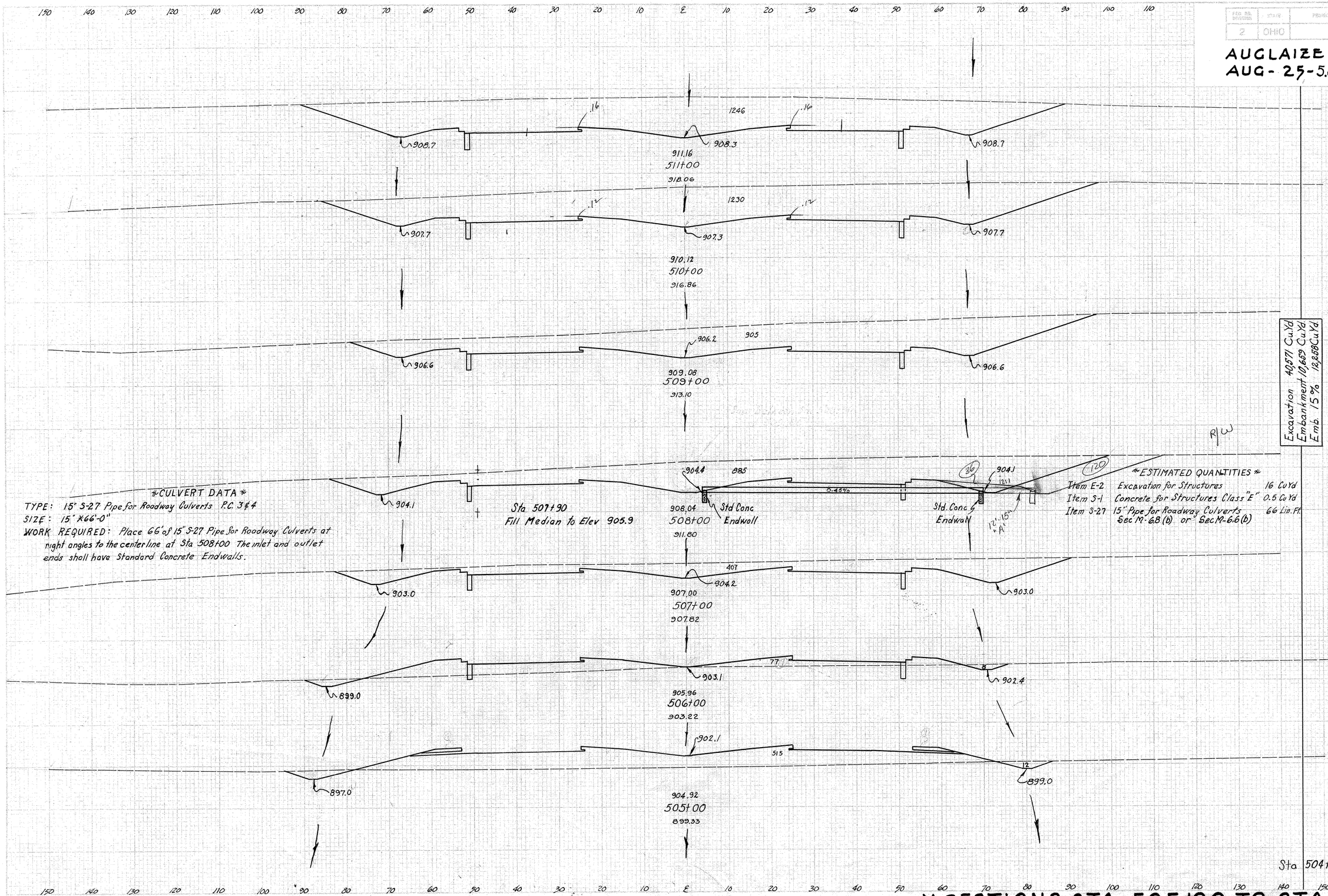
Item E-2	Excavation for Structures	11 Cuyd
Item I-8	Standard N°1-2A Catch Basin	1 Each
Item S-1	Concrete for Structures Class "E"	.26 Cuyd
Item S-27	15" S-27 Pipe for Roadway Culverts Sec. M-68(b) or Sec. M-66(b)	80 Lin Ft

X-SECTIONS STA. 499+00 TO STA. 504+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

107
466

AUGLAIZE COUNTY
AUG-25-5.05



CULVERT DATA

TYPE: 15" S-27 Pipe for Roadway Culverts P.C. 3 & 4
SIZE: 15" X 66'-0"
WORK REQUIRED: Place 66' of 15" S-27 Pipe for Roadway Culverts at right angles to the centerline at Sta 508+00 The inlet and outlet ends shall have Standard Concrete Endwalls.

ESTIMATED QUANTITIES

Item E-2	Excavation for Structures	16 Cu Yd
Item S-1	Concrete for Structures Class "E"	0.5 Cu Yd
Item S-27	15" Pipe for Roadway Culverts Sec M-6.8 (b) or Sec M-6.6 (b)	66 Lin. Ft.

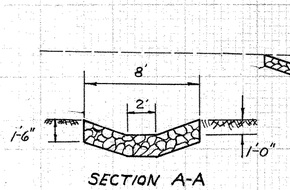
Excavation 40,571 Cu Yd
Embankment 10,839 Cu Yd
Emb. 15% 18,858 Cu Yd

	End Area		Volume	
	Cut	Fill	Cut	Fill
1246	0			
			4585	0
1230	0			
			3954	0
905	0			
			3315	0
885	0			
			2393	0
407	0			
			789	472
19	255			
			94	1452
32	529			
			119	1980
Sta 504+00	32	540		

X-SECTIONS STA. 505+00 TO STA. 511+00

FED. ROAD DIV. & FISCH.	STATE	PROJECT		108 466
2	OHIO			

AUGLAIZE COUNTY
AUG-25 5.05



SECTION A-A

End Area		Volume	
Cut	Fill	Cut	Fill
1752	0		
		6802	0
1921	0		
		7058	0
1890	0		
		6723	0
1740	0		
		6889	0
1980	0		
		6213	0
1375	0		
		4854	0
Sta 511+00 1246	0		

X-SECTIONS STA. 512+00 TO STA. 517+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

109
466

AUGLAIZE COUNTY
AUG-25-5.05

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110

120 130 140 150

	End Area		Volume	
	cut	fill	cut	fill
3451	3451	0		
			12555	0
3329	3329	0		
			11305	0
2776	2776	0		
			9420	0
2311	2311	0		
			7735	0
1866	1866	0		
			6636	0
1717	1717	0		
			6425	0
Sta 517+00	1752	0		

918.22
523+00
934.19

3451

915.5 915.2 915.5

18
928.0

918.00
522+00
933.89

3311

915.2 915.0 915.2

24
926.0

917.56
521+00
929.29

2752

914.9 914.7 914.9

27
924.0

917.02
520+00
927.93

2284

914.6 914.2 914.6

25
923.0

1841

914.0 913.3 914.0

916.48
519+00
926.13

922.0
21

1691

913.5 912.4 912.1

915.94
518+00
924.79

℄

Sta 517+90
Fill Median to Elev. 913.9

23 Std. Conc. Endwall

0.45%

Std. Conc. Endwall

16'-0" of 12" +A

4:1

3:1

6'

15'

30

16'-11"

CULVERT DATA

TYPE: 15" S-27 Pipe for Roadway Culverts, RC. 3 & 4
SIZE: 15"x66'-0"
WORK REQUIRED: Place 66' of 15" S-27 Pipe for Roadway Culverts at right angles to ℄ at Sta 518+00 with Std. Conc. Endwalls on inlet and outlet ends.

ESTIMATED QUANTITIES

ITEM E-2 Excavation for Structures	17 cu.yd
ITEM S-1 Conc. for Structures Class E	0.5 cu.yd
ITEM S-27 15" Pipe for Roadway Culverts Sec. M-6.8(b) or Sec M-6.6(b)	66 lin. ft.

X-SECTIONS Sta. 518+00 To Sta. 523+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

110
466

AUGLAIZE COUNTY
AUG-25- 5.05

	End Area		Volume	
	Cut	Fill	Cut	Fill
529+00	1377	0		
			5663	0
528+00	1681	0		
			7078	0
527+00	2141	0		
			8488	0
526+00	2443	0		
			9726	0
525+00	2809	0		
			10937	0
524+00	3097	0		
			12137	0
Sta 523+00	3457	0		

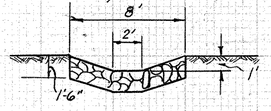
Excavation 186,225 Cu.Yd.
Embankment 0 Cu.Yd.
Emb. 15% 0 Cu.Yd.

X-SECTIONS STA 524+00 TO STA 529+00

FED. ROAD DIVISION	STATE	PROJECT		
2	OHIO			

111
466

AUGLAIZE COUNTY
AUG-25- 5.05



* CULVERT DATA *

TYPE – S-27 PIPE R.C. 3 & 4
SIZE – 15"x70'
WORK REQUIRED – Construct 15"x70' S-27 Pipe For Roadway Culverts At Sta. 534+00 Rt. With Standard Concrete Endwalls.

* ESTIMATED QUANTITIES *

ITEM	E-2	Excavation For Structures	17 Cu.Yds.
ITEM	S-1	Concrete For Structures. Class "E"	0.52 Cu.Yds.
ITEM	S-27	Pipe For Roadway Culverts 15"	70 Lin.Ft.
		Sec. M-6.8(b) or Sec M-6.8(b)	

End Area		Volume	
Cut	Fill	Cut	Fill
433	0		
		1785	0
531	0		
		1926	0
509	0		
		2145	0
649	0		
		2715	0
817	0		
		3222	0
923	0		
		4260	0
1377	0		

X-SECTIONS STA. 530+00 TO STA. 535+00

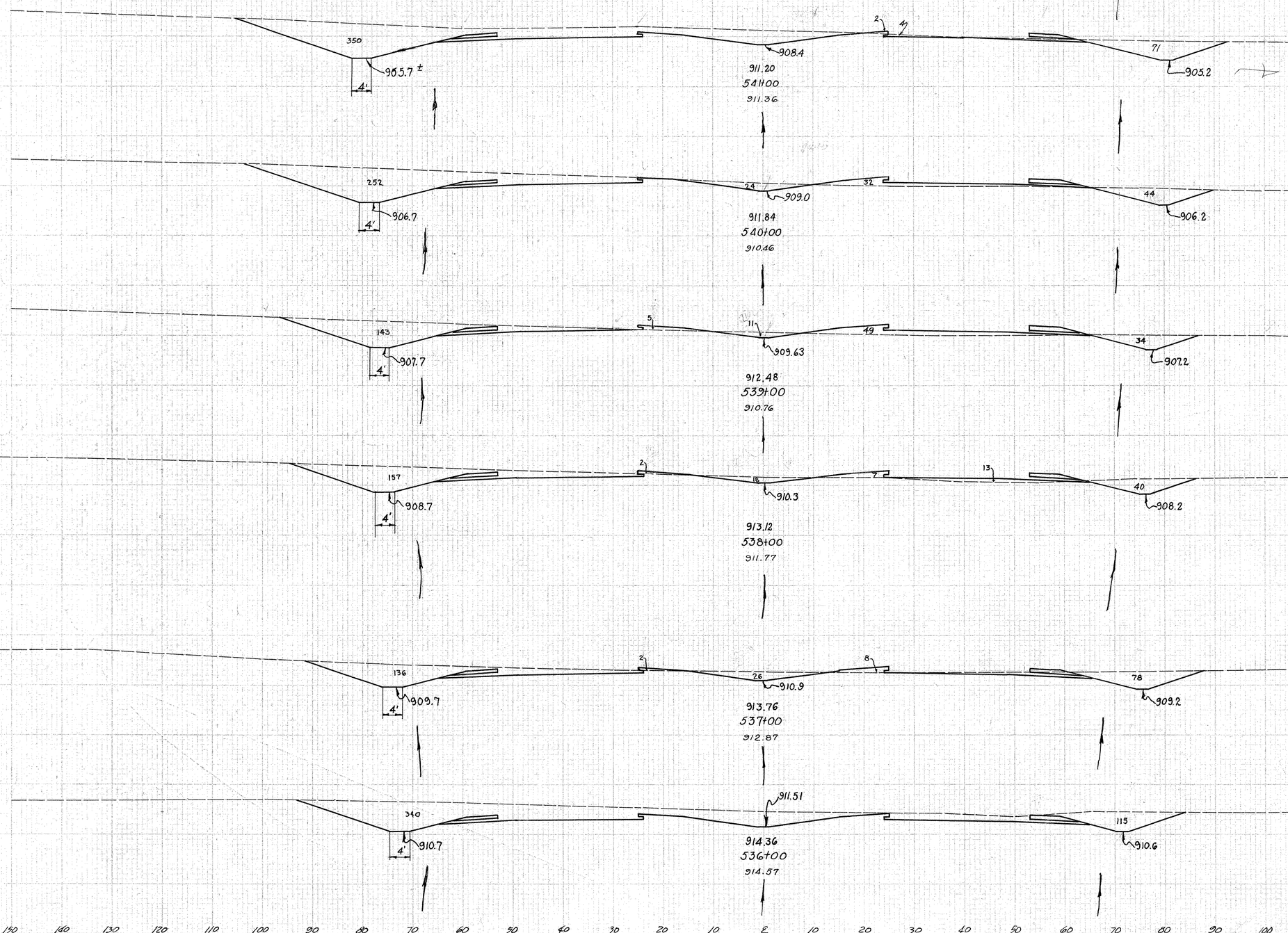
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

112
466

AUGLAIZE COUNTY
AUG-25- 5.05

Fill Ditch Sta 541+25
Elev. 907.9

+25 Begin Min. Ditch



	End Areas		Volume	
	Cut	Fill	Cut	Fill
425	2			
			1380	63
320	32			
			941	159
188	54			
			746	141
215	22			
			843	59
240	10			
			1287	19
455	0			
			1644	0
Sta 535+00 433	0			

Excavation 86,657 Cu.Yd.
Embankment 4,452 Cu.Yd.
Emb 15% 5,220 Cu.Yd.

X-SECTIONS STA. 536+00 TO STA. 541+00

FED. AID DIVISION	STATE	PROJECT		SHEET NO.	TOTAL SHEETS
2	OHIO			113	466

AUGLAIZE COUNTY
AUG-25-5.05

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 E 10 20 30 40 50 60 70 80 90 100 110

904.5
904.9 417 904.4
907.36
547+00
909.36

905.6 364 905.2 904.7
908.00
546+00
908.89

905.8
906.2 581 905.0
908.64
545+00
910.39

+10 Fill Median to Elev 907.1

136 36 34

905.6 756 811 811
906.8 909.28 FL. 905.6 Prop. 15"X68' S-27 Pipe FL. 905.3
544+00
912.39

907.1
907.5 625 906.5
909.92
543+00
911.59

907.7
907.8 279 907.8
910.56
542+00
910.76

Fill Ditch Sta 541+25
to Elev 907.9

* CULVERT DATA *
TYPE - S-27 Pipe P.C. 3 & 4
SIZE - 15"X 68'
WORK REQUIRED - Conpstruct 15"x 68' - S-27 Pipe For Roadway Culverts P.C. 3 & 4 At Sta. 544+00 With Standard Concrete End Walls 3' Rt ℄ 71' Rt. As Shown.

* ESTIMATED QUANTITIES *

ITEM E-2	Excavation For Structures	18 Cu. Yds.
ITEM S-1	Concrete For Structures	0.52 Cu. Yds
ITEM S-27	Pipe Roadway Culverts 15" Sec. M-68 (b) or Sec. M-66 (b)	68 Lin. Ft.

	End Area		Volume	
	Cut	Fill	Cut	Fill
417	0			
			1446	0
364	0			
			1750	0
581	0			
			2476	0
756	0			
			2558	0
625	0			
			1680	4
282	2			
			1309	7
Sta. 541+00 425	2			

X-SECTIONS STA. 542+00 TO STA. 547+00

FED. RD. DIVISION	STATE	PROJECT		114
2	OHIO			466

AUGLAIZE COUNTY
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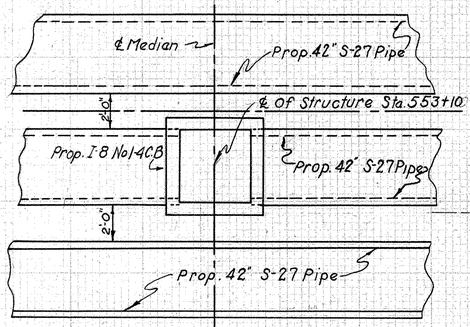
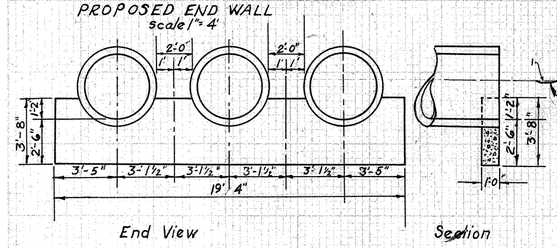
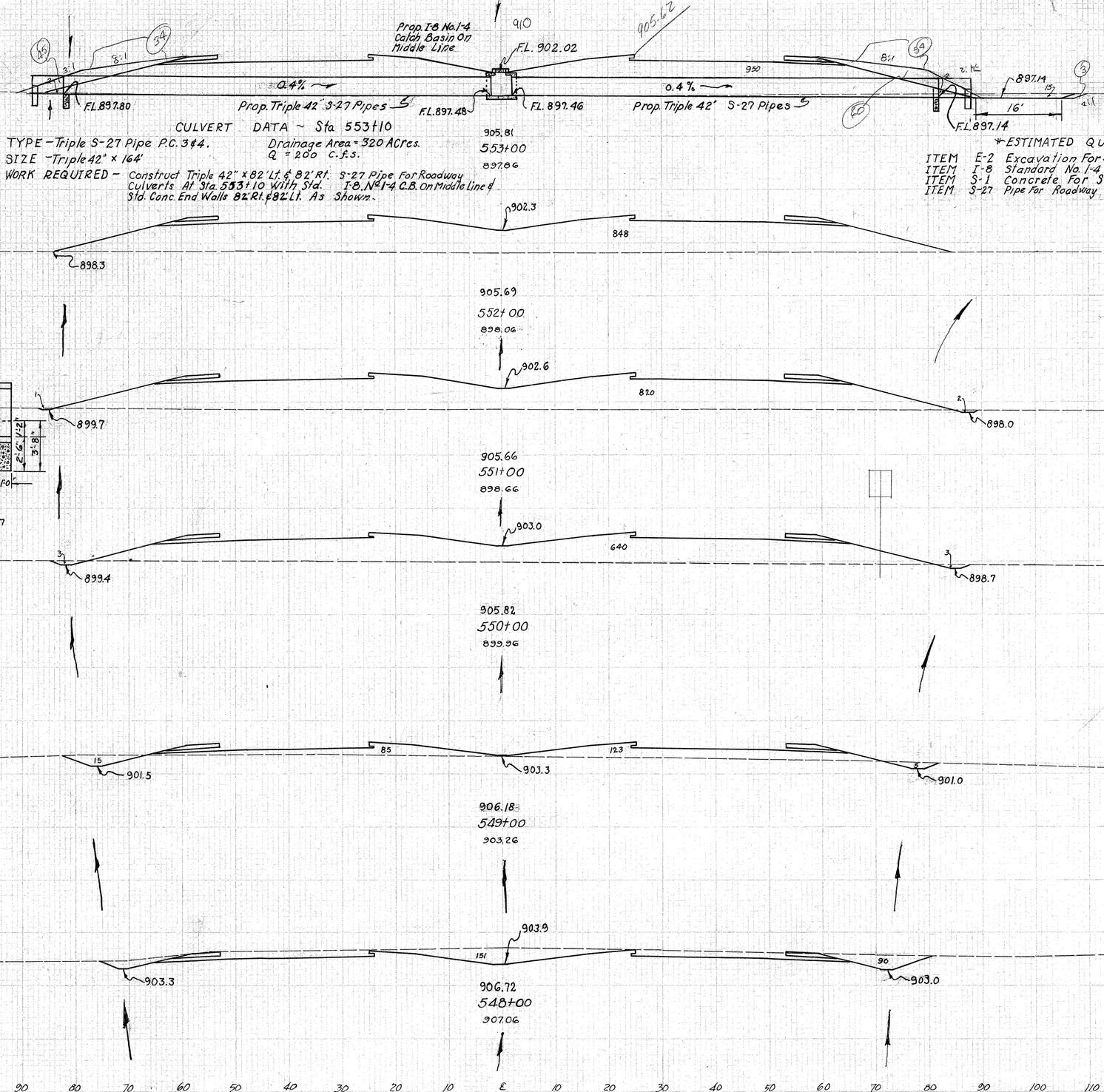
PROP. STRUCTURE AT STA. 553+10

Plan
Scale 1" = 4'



PROPOSED END WALL
Scale 1" = 4'





CULVERT DATA ~ Sta 553+10

TYPE – Triple S-27 Pipe P.C. 3 ℄4.
SIZE – Triple 42" x 164'
WORK REQUIRED – Construct Triple 42" x 82'Lt. & 82'Rt. S-27 Pipe For Roadway Culverts At Sta. 553+10 With Std. I-8 No. 1-4 C.B. On Middle line ℄ Std. Conc. End Walls 82'Rt. ℄ 82'Lt. As Shown.

Drainage Area = 320 Acres.
Q = 200 C.F.S.

ESTIMATED QUANTITIES

ITEM	E-2	Excavation For Structures	65 Cu. Yds
ITEM	I-8	Standard No. 1-4 Catch Basin	1 Each
ITEM	S-1	Concrete For Structures Class "E"	4.24 Cu. Yds
ITEM	S-27	Pipe for Roadway Culverts 42"	488 Lin. Ft.

End Area		Volume	
Cut	Fill	Cut	Fill
15	950		
		28	3330
0	848		
		6	3089
3	820		
		17	2704
6	640		
		48	1570
20	208		
		483	385
241	0		
		1219	0
Sta 547+00 417	0		

Excavation 6430 Cu. Yd.
Embankment 3434 Cu. Yd.
Emb. 15% 3946 Cu. Yd.

X-SECTIONS STA. 548+00 TO STA. 553+00

FED. RD. DIVISION	STATE	PROJECT		115 / 466
2	OHIO			

AUGLAIZE COUNTY
AUG-25-5.05

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 E 10 20 30 40 50 60 70 80 90 100 110

559+27
903.7
827
16'
6
898.4
898.3
85
16'

559+30
906.56
559+00 ℄ Median Cross-Over
898.96
903.4
915
16'
5
898.3
898.2
57
16'

906.43
558+00
898.26
903.1
941
16'
5
898.2
898.1
34
16'

906.31
557+00
898.36
902.9
906
16'
25
898.1
898.0
15
16'

906.18
556+00
898.16
902.6
914
16'
30
898.0
897.9
14
16'

906.06
555+00
897.76
902.3
903
16'
11
897.9
897.8
16
16'

905.94
554+00
897.96

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 E 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

	End Area		Volume	
Sta	Cut	Fill	Cut	Fill
553+00	15	950		
			78	3432
552+00	27	903		
			131	3365
551+00	44	914		
			156	3371
550+00	40	906		
			146	3420
549+00	39	941		
			187	3437
548+00	62	915		
			283	3226
547+00	91	827		

X-SECTIONS STA. 554+00 TO STA. 559+00

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
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	End Area		Volume	
Sta.	Cut	Fill	Cut	Fill
559+00	91	827		
			452	2985
560+00	153	785		
			511	2687
561+00	123	666		
			506	2304
562+00	150	578		
			830	1557
563+00	298	263		
			1667	959
564+00	602	255		
			2541	730
565+00	770	139		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110

16' 76 899.0 132 5 904.40 7 689 898.9 16'
907.25 565+00 903.01

16' 107 898.9 137 2 904.1 18 493 898.8 16'
907.18 564+00 904.58

16' 96 903.8 263 252 898.7 16'
907.05 563+00 903.48

16' 16 898.7 903.5 578 134 898.6 16'
906.93 562+00 901.68

16' 15 898.6 903.2 666 108 898.5 16'
906.80 561+00 900.08

16' 12 898.5 F.L. 902.9 785 F.L. 899.5 Prop. I-8 No.1-2-A C.B. Prop. 15"x86' S-27 Pipe 12.79% F.L. 898.4 898.4 141 16'
906.68 560+00 899.38

8:1 62 4'0 S 15" 47 27

CULVERT DATA
TYPE – S-27 PIPE P.C. 3 & 4
SIZE – 15"X 86'
WORK REQUIRED – Construct 15"x 86' S-27 Pipe For Roadway Culverts P.C. 3 & 4 At Sta. 560+00 Rt. With Standard No. 1-2-A. C.B. On ℄ And Standard Concrete End Wall 87' Rt. As Shown.

ESTIMATED QUANTITIES

ITEM E-2	Excavation For Structures	12 Cu. Yds.
ITEM S-1	Concrete For Structures Class "E"	0.26 Cu. Yds.
ITEM S-27	Pipe For Roadway Culverts 15" Sec. M-6.8(b) or Sec. M-6.6(b)	86 Lin. Ft.
Item I-8	No. 1-2-A Catch Basin	1 Each

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

X-SECTIONS STA. 560+00 TO STA. 565+00

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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AUGLAIZE COUNTY
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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110

16' 25 899.6 323 902.6 126 899.5 16'

905.92
571+00
902.01

16' 35 899.5 332 902.9 168 899.4 16'

906.22
570+00
902.01

16' 38 899.4 318 903.2 213 899.3 16'

906.52
569+00
902.81

16 68 899.3 185 903.5 65 284 899.2 16'

906.82
568+00
903.41

16' 98 899.2 146 903.8 49 323 899.1 16'

907.04
567+00
903.81

16' 94 899.1 8 904.1 7 118 546 899.0 16'

907.12
566+00
905.11

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

	End Area		Volume	
	Cut	Fill	Cut	Fill
	151	323		
			656	1213
	203	332		
			841	1204
	251	318		
			1117	1052
	352	250		
			1431	824
	421	195		
			1980	593
	648	125		
			2626	489
Sta. 565+00	770	139		

Excavation 16497 Cu.Yd.
Embankment 18073 Cu.Yd.
Emb. 15% 20784 Cu.Yd.

X-SECTIONS STA. 566+00 TO STA. 571+00

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY
AUG - 25 - 5.05

* CULVERT DATA *

TYPE - S-27 Pipe P.C. 3+4
SIZE - 18"X 72'
WORK REQUIRED - Construct 18"X 72' S-27 Pipe For Roadway Culverts At Sta. 576+00 Rt With Standard End Walls 2' R & 74' Rt. As Shown.

~ ESTIMATED QUANTITIES ~

ITEM E-2	Excavation For Structures	11 Cu.Yds.
ITEM S-1	Concrete For Structures Class "E"	0.60 Cu.Yds.
ITEM S-27	Pipe For Roadway Culverts 18" Sec. M-6.8(b) or Sec. 68(b)	72 Lin.Ft.

	End Area		Volume	
	Cut	Fill	Cut	Fill
906.02 3+84.85 902.2	56	401		
			270	1504
906.02 2+84.85 902.7	90	411		
			337	1524
906.02 1+84.85 902.9 Ahead	92	412		
Back	64	304		
			252	1163
	72	324		
			391	1131
	139	287		
			563	1050
	165	280		
			585	1117
Sta. 571+00	151	323		

Ahead included Main Line Quantities
Back in Seitz-Holden Road Quantities

X-SECTIONS-STA. 572+00 TO STA. 577+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
AUG-25-5.05

Sta	End Area Cut	End Area Fill	Volume Cut	Volume Fill
583+00				
	13	645		
			67	2333
582+00				
	23	615		
			141	2033
581+00				
	53	483		
			207	1689
580+00				
	59	429		
			204	1641
579+00				
	51	457		
			248	1659
578+00				
	83	439		
			257	1556
Sta 577+00	56	401		

Excavation 4260 Cu Yd
Embankment 30978 Cu Yd
End 15% 33910 Cu Yd

X-SECTIONS STA. 578+00 TO STA. 583+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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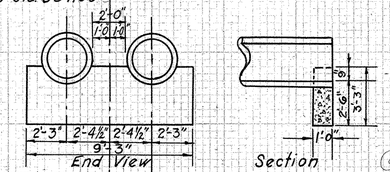
466

AUGLAIZE COUNTY
AUG-25-5.05

PROPOSED END WALL
scale 1"=4'

℄ Structure Sta 587+00



℄ CULVERT DATA ℄

TYPE – S-27 Pipe R.C. 3 ℄ 4.
SIZE – Twin 27" X 154'
WORK REQUIRED – Construct Twin 27" X 76' Lt. & 78' Rt. S-27 Pipe For Roadway Culverts At Sta. 587+00 With Standard No. 1-4 Catch Basin in Center of Median of Southline ℄ Standard Concrete End Walls 76' Lt. & 78' Rt. As Shown.

~ESTIMATED QUANTITIES~

ITEM E-2	Excavation For Structures	71 Cu.Yds.
ITEM I-8	Standard No. 1-4 Catch Basin	1 Each
ITEM S-1	Concrete For Structures Class "E"	194 Cu.Yds.
ITEM S-27	Pipe For Roadway Culvert 27" Sec. M-68(b) or Sec. M-66(b)	304 Lin. Ft.

	End Area		Volume	
	Cut	Fill	Cut	Fill
906.48 15+84.85 902.1	29	714		
Add for Dr Rt. Sta 15+13			1	60
			102	2558
906.36 14+84.85 901.9	26	667		
			85	2483
906.24 13+84.85 901.7	20	674		
			63	2419
906.12 12+84.85 901.5	14	632		
			46	2309
906.03 11+84.85 901.4	11	615		
			61	2269
906.02 10+84.85 901.7	22	610		
			65	2324
	13	645		

X-SECTIONS STA 584+00 TO STA. 589+00

FED. ROAD DIVISION	STATE	PROJECT		121
2	OHIO			466

AUGLAIZE COUNTY
AUG-25-5.05

CULVERT DATA

TYPE: 30" S-27 Pipe for Roadway Culverts P.C. 3 & 4"

SIZE: 162'-0" X 30"

WORK REQUIRED: Place 30" S-27 Pipe for Roadway Culverts at right angles to Sta 594+00 with standard concrete endwalls on left and right. (C.P.C. 4)

Dr. Rt 21+48

6.0% Grade

Prop. 15" Pipe for Dr. El 902.2

906.7 — 43 — 902.7 — 498 — 901.9 — 30 — 16' — 144 — 907.20 — 21+84.85 — 903.0

909.32 — 595+00 — 904.36

906.4 — 902.45 — 16 — Std conc. Endwall — 622 — 905.12 — 901.8 — 26 — 16' — Std Conc Endwall — 907.08 — 20+84.85 — 902.6

Prop 162' of 30" S-27 Pipe for Roadway Culverts @ 0.4% Grade

909.21 — 594+00 — 903.96

Drainage Area = 19 Acres

Q = 24 c.f.s.

906.1 — 24 — 902.8 — 533 — 901.7 — 21 — 16' — 140 — 906.96 — 19+84.85 — 903.1

908.97 — 593+00 — 903.96

905.8 — 905.1 — 451 — 901.6 — 24 — 16' — 150 — 906.84 — 18+84.85 — 902.4

908.67 — 592+00 — 903.96

905.5 — 2 — 903.4 — 582 — 901.5 — 12 — 16' — 156 — 906.72 — 17+84.85 — 902.2

908.36 — 591+00 — 902.86

905.2 — 8 — 903.0 — 469 — 901.4 — 19 — 16' — 152 — 906.60 — 16+84.85 — 902.1

908.06 — 590+00 — 903.06

Add for Dr. Rt. Sta 21+48

26 — 902.1 — 150 — 160 — 170 — 140

32 — 902.0 — 150 — 160 — 170 — 180

26 — 902.4 — 2 — 901.9 — 150 — 160 — 170 — 180

27 — 902.2 — 2 — 901.8 — 150 — 160 — 170

29 — 902. — 1 — 901.7 — 150 — 160 — 170 — 180

ESTIMATED QUANTITIES

Item E-2	Excavation for Structures	53	Cu Yd
Item S-1	Concrete for Structures Class "E"	1.02	Cu Yd
Item S-27	30" Pipe for Roadway Culverts Sec M-6.8(b) or Sec M-6.6(b)	162	Lin. Ft.

	End Area		Volume	
	Cut	Fill	Cut	Fill
	75	662		
Add for Dr. Rt. Sta 21+48			1	55
			222	2685
	45	788		
			167	2765
	45	705		
			131	2467
	26	627		-
			78	2578
	16	765		
			81	2611
	28	645		
			106	2517
Sta 589+00	29	714		

X-SECTIONS STA. 590+00 TO STA. 595+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
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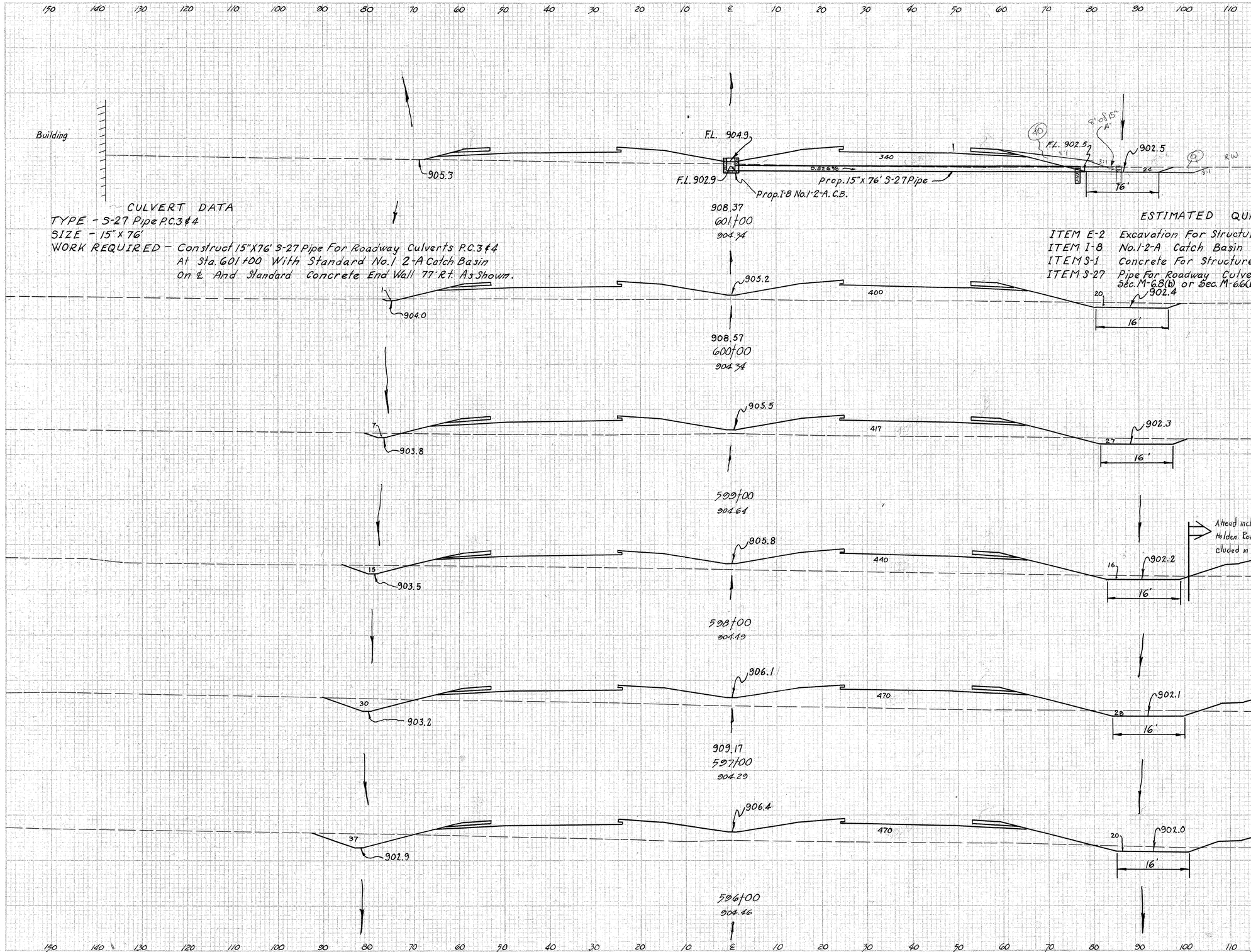

CULVERT DATA

TYPE - S-27 Pipe P.C. 3 & 4
SIZE - 15" x 76'
WORK REQUIRED - Construct 15" X 76' S-27 Pipe For Roadway Culverts P.C. 3 & 4 At Sta. 601+00 With Standard No. 1 2-A Catch Basin On ℄ And Standard Concrete End Wall 77 Rt. As Shown.

ESTIMATED QUANTITIES

ITEM E-2	Excavation For Structures	11 Cu. Yds
ITEM I-8	No. 1-2-A Catch Basin	1 Each
ITEM S-1	Concrete For Structures Class "E"	0.26 Cu. Yds.
ITEM S-27	Pipe For Roadway Culverts 15" Sec. M-6.8(b) or Sec. M-66(b)	76 Lin. Ft.

	End Area Cut	End Area Fill	Volume Cut	Volume Fill
	24	340		
			83	1370
	21	400		
			102	1513
	34	417		
			120	1587
Ahead	31	440		
Back	33	657		
			172	2428
	60	654		
			220	2415
	59	650		
			248	2430
	75	662		

X-SECTIONS STA. 596+00 TO STA. 601+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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	End Area		Volume	
	Cut	Fill	Cut	Fill
	17	380		
			57	1554
	14	459		
			61	1724
	19	472		
			78	1689
	23	440		
			48	1456
	3	346		
Add for Crib Wall			180	
			54	1372
	26	395		
			93	1361
Sta 601+00	24	340		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

906.3 — 380 — 903.1 — 16'

904.5

909.17
607+00
905.14

903.61 — 903.9 — 459 — 903.00 — 16'

152' of Twin 24" S-27 Pipe for Roadway Culverts @ 0.4% Grade

Concrete Endwall — Conc Endwall

908.87
606+00
903.94

Drainge Area = 31 Acres
Q = 34 c.f.s.

905.6 — 472 — 902.9 — 16'

908.57
605+00
903.44

Std 1-2AC.B.
905.25 F.L. Grade

903.4 — 440 — 902.8 — 16'

Concrete Endwall — Prop Twin 21" S-27 Pipe for Roadway Culverts — 903.10 — @ 0.4% Grade — Conc Endwall

603+85 Fill Median to Elev. 906.8

908.33
604+00
903.44

Drainage Area = 15 Acres
Q = 21 c.f.s.

904.9 — 196 — 150 — 902.7 — 16'

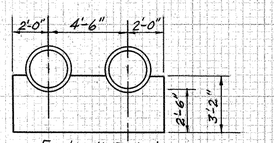
904.1

603+00
904.94

904.6 — 395 — 902.6 — 16'

904.3

908.23
602+00
904.14



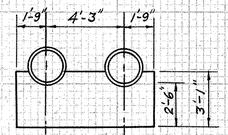
Endwall Detail
Endwall For Twin 24" Pipe in Structures
Basic Design taken from Std. Drawing P.C.4.
Scale 1"=4'

CULVERT DATA

TYPE: Twin 24" S-2 Pipe for Roadway Culverts P.C. 3&4
SIZE: 152'-0"x24" 152'-0"x24"
WORK REQUIRED: Place 152'-0 of Twin 24" S-27 Pipe for Roadway Culverts at right angles to Sta 606+00 Concrete endwalls to be used shall be made according to the Endwall design.

ESTIMATED QUANTITIES

Item E2	Excavation for Structures	48 Cu Yd.
Item S-1	Concrete for Structures Class "E"	1.74 Cu Yds.
Item S-27	24" Pipe for Roadway Culverts Sec M-68(b) or Sec M-66(b)	304 Lin Ft.



Endwall Detail
Endwall for Twin 21" Pipe in Structure
Basic design taken from Std. Drawing P.C.4
Scale 1"=4'

CULVERT DATA

TYPE: Twin 21" S-27 Pipe for Roadway Culvert P.C. 3&4
SIZE: 148'-0"x21" ; 72'-0"x21" ; 74'-0"x21"
WORK REQUIRED: Place Twin 21 S-27 Pipe for Roadway Culverts at right angles to Sta 604+00. Place a Standard Nº 1-2A Catch Basin, for median drainage on the South line of pipe. The ends shall have concrete endwalls as shown at Left in detail.

ESTIMATED QUANTITIES

Item E-2	Excavation for Structures	42 Cu.Yds.
Item I-8	Standard Nº 1-2A Catch Basin	1 Each
Item S-1	Concrete for Structures Class "E"	1.6 Cu.Yds
Item S-27	21" Pipe for Roadway Culverts Sec. M-68(b) or Sec. M-66(b)	294 Lin. Ft.

X-SECTIONS STA. 602+00 TO STA. 607+00

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
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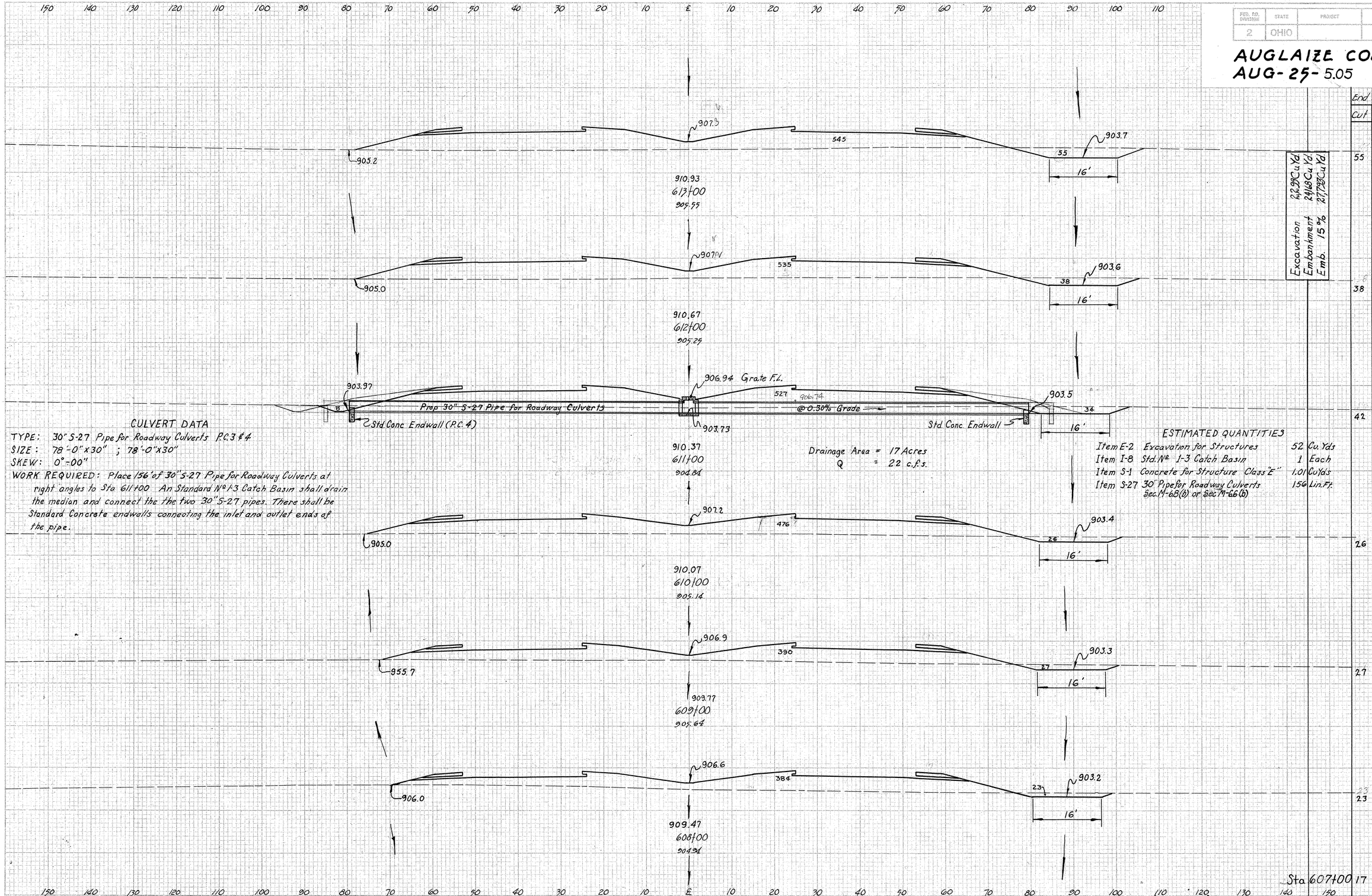

Excavation 2239 Cu Yd
Embankment 2468 Cu Yd
Emb. 15% 2778 Cu Yd

	End Area		Volume	
	Cut	Fill	Cut	Fill
Sta 613+00	55	545		
			172	2000
Sta 612+00	38	535		
			148	1967
	42	527		
			126	1857
Sta 611+00	26	476		
			98	1604
Sta 610+00	27	390		
			93	1433
Sta 609+00	23	384		
			74	1415
Sta 608+00	17	380		

CULVERT DATA

TYPE: 30" S-27 Pipe for Roadway Culverts P.C. 3 & 4
SIZE: 78'-0" x 30" ; 78'-0" x 30"
SKEW: 0°-00"

WORK REQUIRED: Place 156' of 30" S-27 Pipe for Roadway Culverts at right angles to Sta 611+00 An Standard N°. I-3 Catch Basin shall drain the median and connect the the two 30" S-27 pipes. There shall be Standard Concrete endwalls connecting the inlet and outlet ends of the pipe.

Drainage Area = 17 Acres
Q = 22 c.f.s.

ESTIMATED QUANTITIES

Item E-2	Excavation for Structures	52	Cu. Yds
Item I-8	Std. N°. I-3 Catch Basin	1	Each
Item S-1	Concrete for Structure Class "E"	1.01	Cu Yds
Item S-27	30" Pipe for Roadway Culverts Sec. M-68(b) or Sec. M-66(b)	156	Lin. Ft.

X-SECTIONS STA 608+00 TO STA 613+00

FED. RD. DIVISION	STATE	PROJECT		125 / 466
2	OHIO			

AUGLAIZE COUNTY
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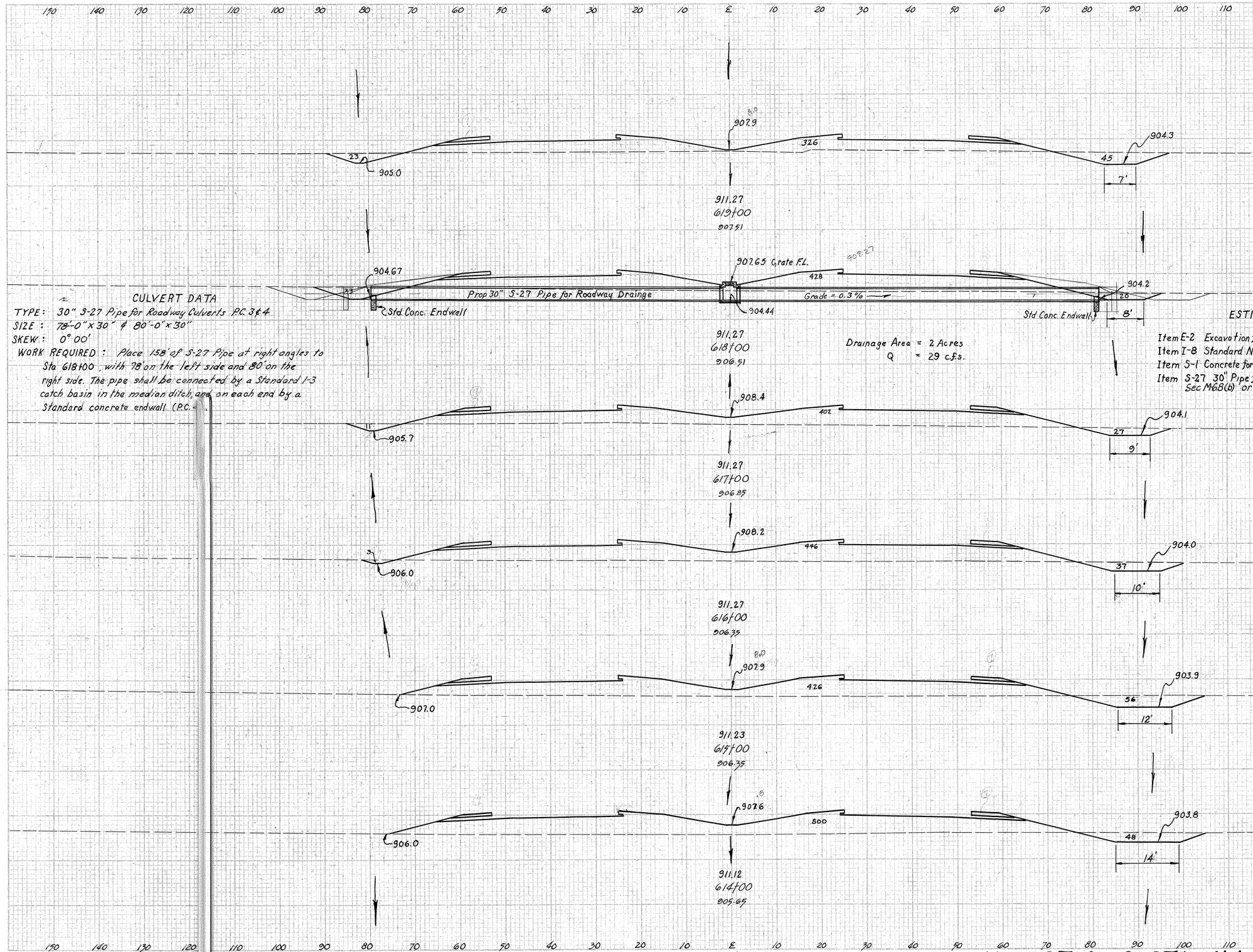
CULVERT DATA

TYPE: 30" S-27 Pipe for Roadway Culverts P.C. 3&4
SIZE: 78'-0" x 30" & 80'-0" x 30"
SKEW: 0° 00'
WORK REQUIRED: Place 158' of S-27 Pipe at right angles to Sta 618+00, with 78' on the left side and 80' on the right side. The pipe shall be connected by a Standard I-3 catch basin in the median ditch, and on each end by a Standard concrete endwall (P.C.



Drainage Area = 2 Acres
Q = 29 c.f.s.

ESTIMATED QUANTITIES

Item E-2 Excavation for Structures	74	Cu Yd.
Item I-8 Standard No. I-3 Catch Basin	1	Each
Item S-1 Concrete for Structures Class "E"	1.02	Cu Yd.
Item S-27 30" Pipe for Roadway Culverts Sec M-68 (b) or Sec M-66 (b)	158	Lin Ft.

	End Area		Volume	
	Cut	Fill	Cut	Fill
	68	326		
			224	1396
	53	428		
			169	1537
	38	402		
			144	1570
	40	446		
			178	1615
	56	426		
			193	1715
	48	500		
			191	1935
Sta 613+00	55	545		

X-SECTIONS STA. 614+00 TO STA 619+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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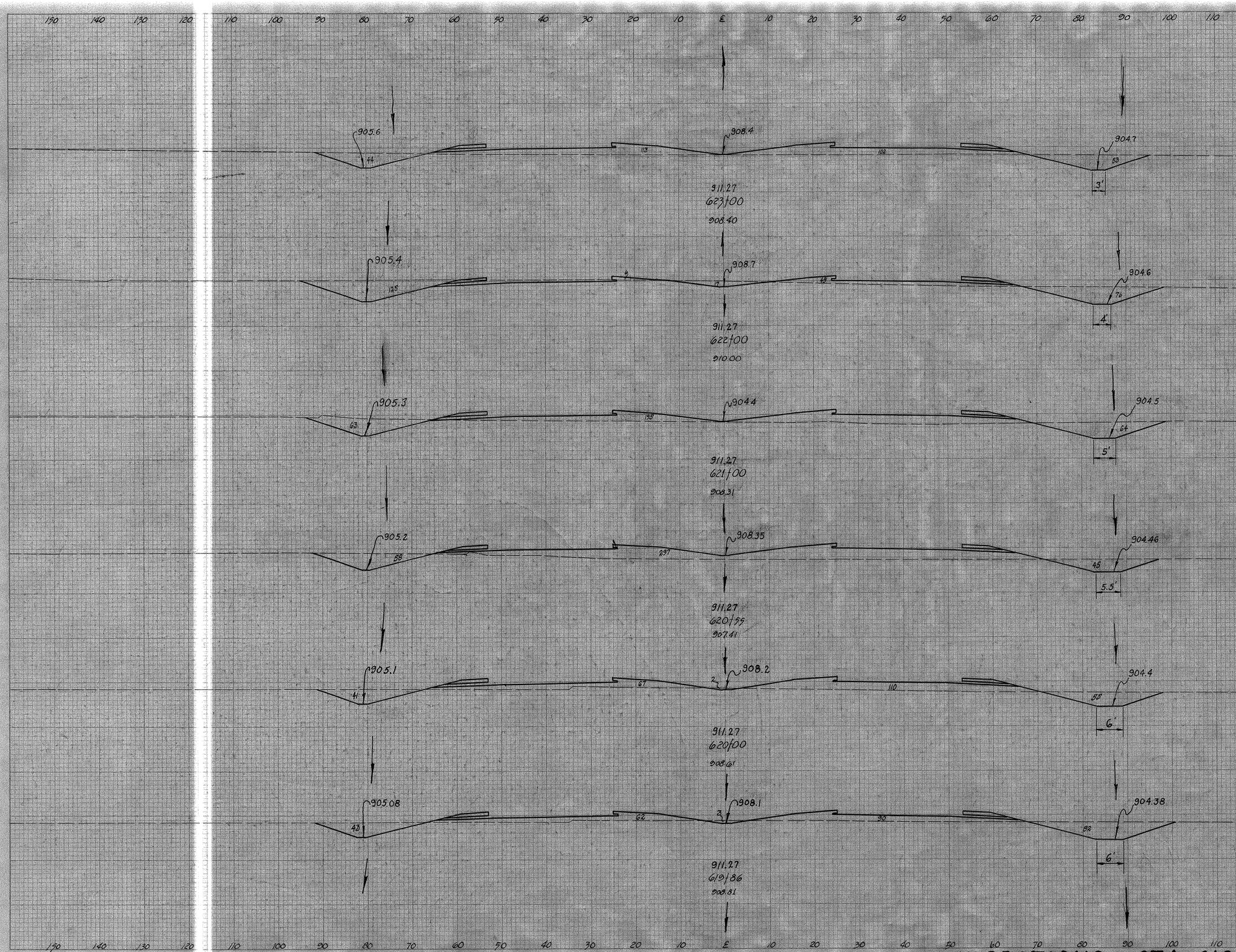
466

AUGLAIZE COUNTY
AUG-25-5.05

Sta	End Area Cut	End Area Fill	Volume Cut	Volume Fill
623+00				
	97	215		
			583	500
622+00				
	218	55		
			639	463
621+00				
	127	195		
			192	410
620+55				
	103	297		
			205	483
620+00				
	98	177		
			59	85
619+86				
	128	152		
			312	761
Sta 619+00	68	326		



X-SECTIONS STA. 619+86 TO STA. 623+00

PROJ. NO. DIVISION	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY
AUG-25-5.05

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 E 10 20 30 40 50 60 70 80 90 100 110

907.8 — 335 — 14 — 905.8
4 — 906.6

911.27
629+00
907.20

907.5 — 325 — 19 — 905.5
6 — 906.4

911.27
628+00
907.20

F.L. 907.0
170 — 153 — 905.2
23
0.512%
F.L. 905.6 — Prop. 15"X78' S-27 Pipe
7 — 906.2

911.27
627+00
907.39

907.5 — 330 — 24 — 905.0
8 — 906.0

911.27
626+00
907.30

907.8 — 306 — 26 — 904.9
17 — 905.9

911.27
625+00
907.60

908.1 — 264 — 30 — 904.8
35 — 905.7

911.27
624+00
907.70

Excavation 8,733 Cu.Yd.
Embankment 13,878 Cu.Yd.
Emb. 15% 15,960 Cu.Yd.

	End Area		Volume	
	Cut	Fill	Cut	Fill
	18	335		
			80	1222
	25	325		
			102	1200
	30	323		
			115	1209
	32	330		
			139	1178
	43	306		
			200	1056
	65	264		
			300	887
Sta 623+00	97	215		

CULVERT DATA

TYPE-S-27 Pipe P.C.3 # 4
SIZE-15"X 78'
WORK REQUIRED- Construct 15"X78' S-27 Pipe For Roadway Culverts At Sta. 627+00 Rt. With Standard No.1-2-A Catch Basin On & And Standard End Wall 79' Rt. AS Shown.

ESTIMATED QUANTITIES

ITEM - E-2	Excavation For Structures	20 Cu. Yds.
ITEM - I-8	No.1-2-A Catch Basin	1 Each
ITEM - S-1	Concrete For Sructures Class "E"	0.26 Cu. Yds.
ITEM - S-27	Pipe For Roadway Culverts 15" Sec.M-68(b) or Sec M-86(b)	78 Lin. Ft.

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 E 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

X-SECTIONS STA. 624+00 TO STA. 629+00

FED. DIV.	STATE	PROJECT	
2	OHIO		

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466

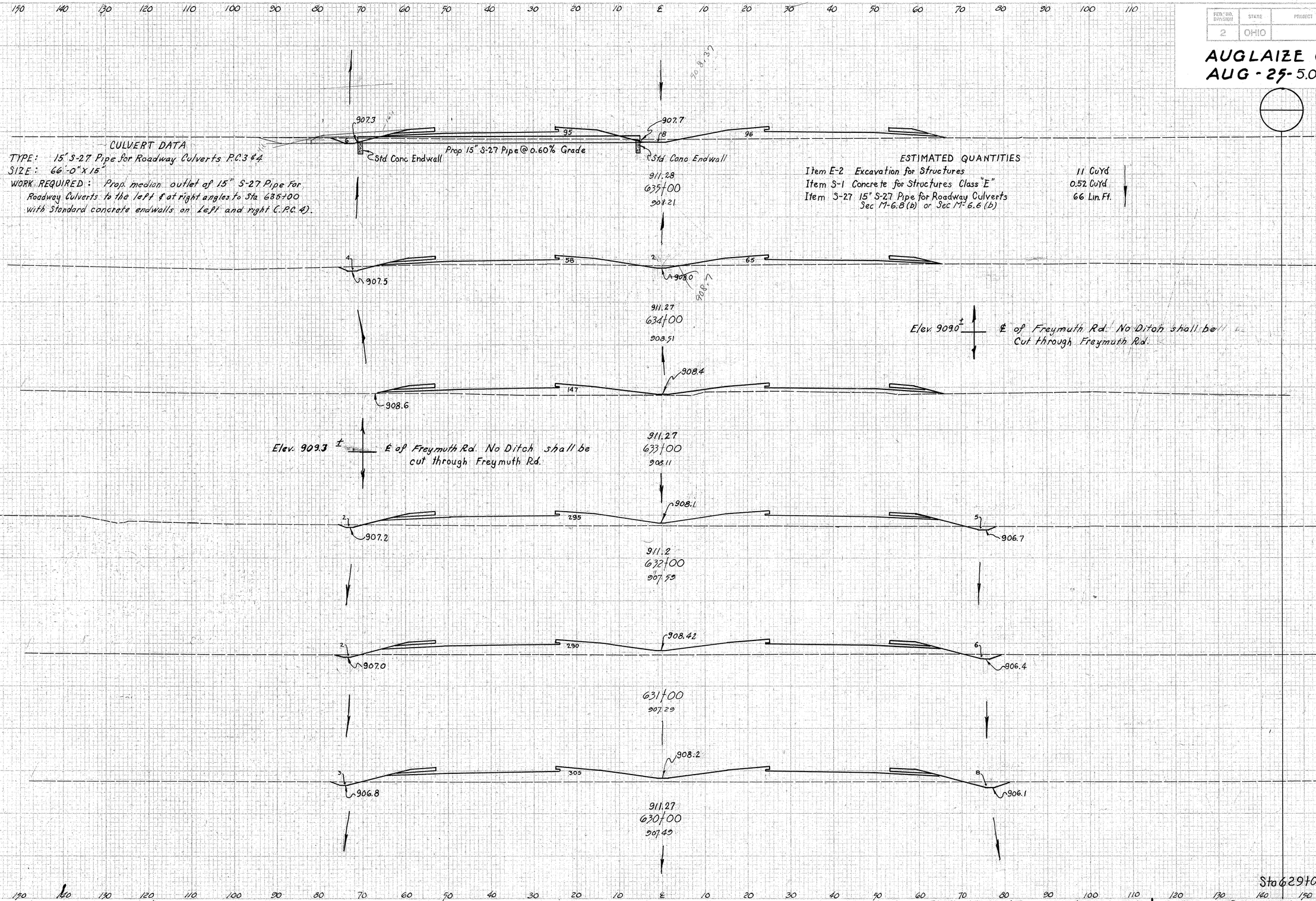
AUGLAIZE COUNTY
AUG - 25 - 5.05

CULVERT DATA

TYPE: 15" S-27 Pipe for Roadway Culverts P.C.3 & 4
SIZE: 66'-0" X 15"
WORK REQUIRED: Prop. median outlet of 15" S-27 Pipe for Roadway Culverts to the left & at right angles to Sta 635+00 with Standard concrete endwalls on Left and right C.P.C. 4).

ESTIMATED QUANTITIES

Item E-2 Excavation for Structures	11 Cu Yd
Item S-1 Concrete for Structures Class "E"	0.52 Cu Yd
Item S-27 15" S-27 Pipe for Roadway Culverts Sec M-6.8 (b) or Sec M-6.6 (b)	66 Lin. Ft.



	End Area		Volume	
	Cut	Fill	Cut	Fill
	14	191		
			37	581
	6	123		
			11	500
	0	147		
			13	819
	7	295		
			28	1083
	8	290		
			35	1102
	11	305		
			54	1185
Sta 629+00	18	335		

X-SECTIONS STA. 630+00 TO STA. 635+00

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

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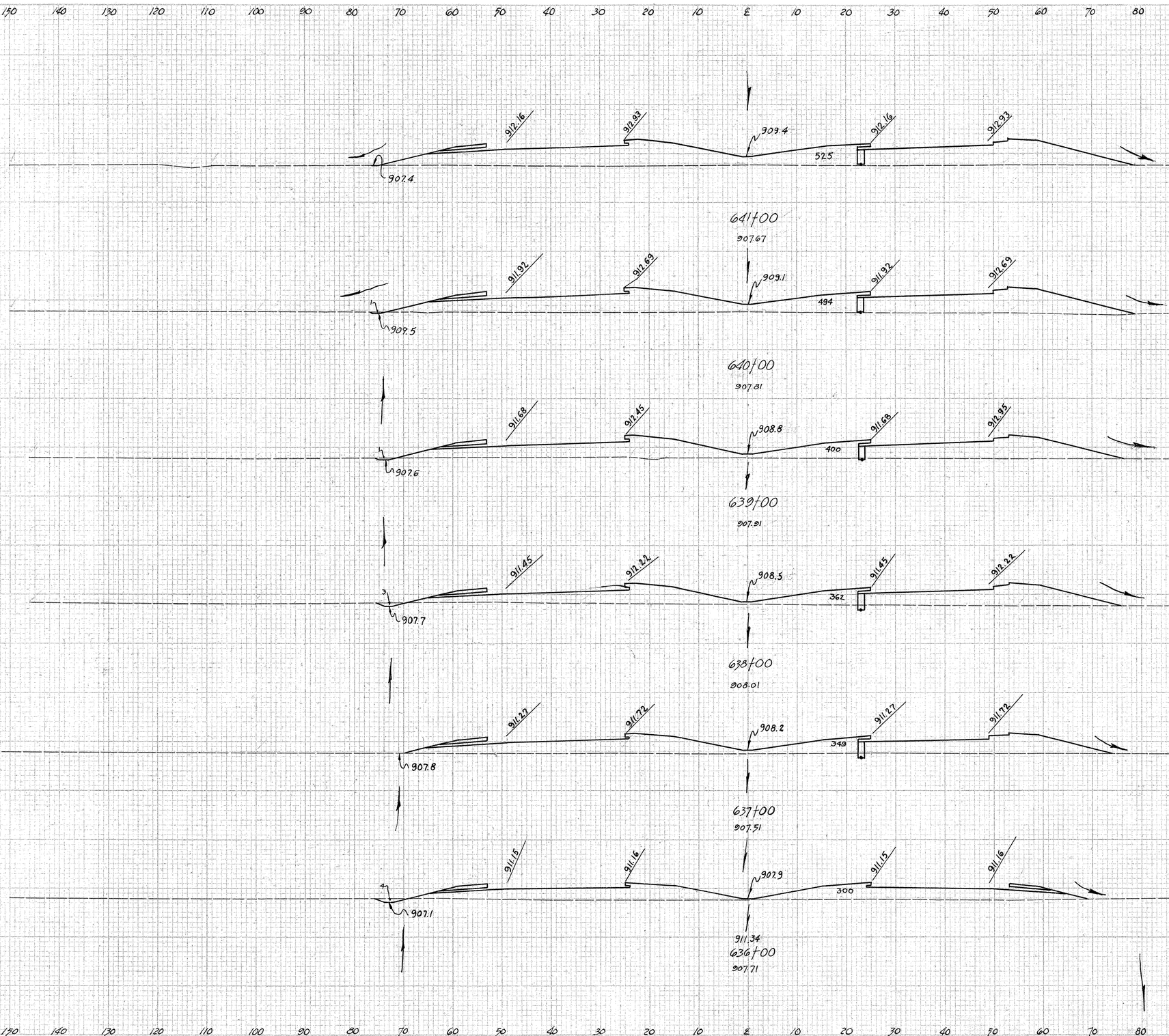
466

AUGLAIZE COUNTY
AUG-25-5.05



	End Area		Volume	
	Cut	Fill	Cut	Fill
	0	525		
			2	1887
	1	494		
			4	1656
	1	400		
			7	1411
	3	362		
			6	1317
	0	349		
			7	1202
	4	300		
			33	909
Sta 635+00	14	191		

X-SECTIONS- STA. 636+00 TO STA. 641+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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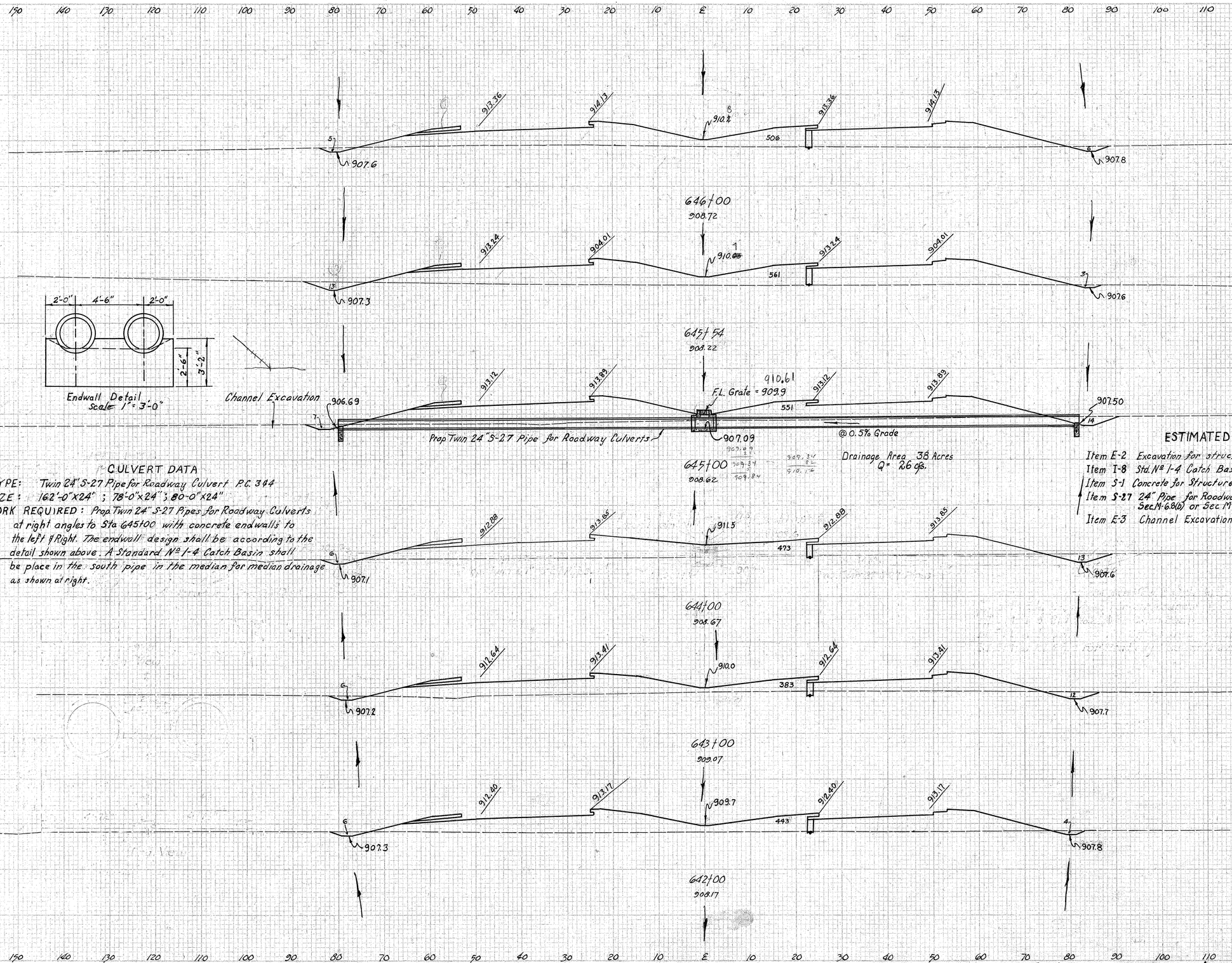
466

AUGLAIZE COUNTY
AUG-25-5.05



CULVERT DATA

TYPE: Twin 24"S-27 Pipe for Roadway Culvert P.C. 344

SIZE: 162'-0"x24" ; 78'-0"x24" ; 80-0"x24"

WORK REQUIRED: Prop Twin 24" S-27 Pipes for Roadway Culverts at right angles to Sta 645+00 with concrete endwalls to the left & Right. The endwall design shall be according to the detail shown above. A Standard Nº 1-4 Catch Basin shall be place in the south pipe in the median for median drainage as shown at right.

ESTIMATED QUANTITIES

Item E-2	Excavation for structures	97 Cu.Yd.
Item I-8	Std. Nº 1-4 Catch Basin	1 Each
Item S-1	Concrete for Structures Class "E"	1.7# Cu.Yd
Item S-27	24" Pipe for Roadway Culverts Sec.M-6.8(b) or Sec.M-6.6(b)	320 Lin.Ft.
Item E-3	Channel Excavation	6 Cu. Yds.

	End Area		Volume	
	Cut	Fill	Cut	Fill
	11	506		
			23	909
	16	561		
			37	1112
	21	551		
			74	1896
	19	473		
			69	1585
	18	383		
			52	1530
	10	443		
			19	1793
Sta 641+00	0	525		

Excavation 740 Cu.Yd
Embankment 2037.2 Cu.Yd
Emb. 15% 266.86 Cu.Yd

X-SECTIONS STA 642+00 TO STA. 646+00

FED. NO. DIVISION	STATE	PROJECT		131
2	OHIO			466

AUGLAIZE COUNTY
AUG-25-5.05

652+00
911.84
914.80 915.57 912.0 914.80 915.57
3 910.3 251 33 910.5

651+00
911.84
914.56 915.33 911.6 911.7 914.56 915.33
14 910.0 146 1 137 30 909.5

650+00
911.64
914.32 915.09 911.6 911.4 914.32 915.09
19 909.7 115 1 102 49 909.2

649+00
910.62
914.08 914.85 911.4 911.7 914.08 914.85
74 909.4 347 16 908.9

648+00
909.62
913.84 914.61 911.2 910.8 913.84 914.61
4 909.0 416 16 908.2

647+00
909.02
913.60 914.37 911.0 910.5 913.60 914.37
4 907.9 495 16 908.0

	End Area		Volume	
	Cut	Fill	Cut	Fill
36		251		
			150	989
45		283		
			211	926
69		217		
			183	1044
30		347		
			93	1413
20		416		
			74	1687
20		495		
			57	1854
Sta. 646+00	11	506		

X-SECTIONS - STA. 647+00 TO STA. 652+00

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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466

AUGLAIZE COUNTY
AUG-25-5.05

	End Area		Volume	
	Cut	Fill	Cut	Fill
	232	2		
			854	15
	229	6		
			622	81
	107	38		
			433	100
	127	16		
			354	104
	64	40		
			159	537
	22	250		
			107	928
Sta 652+00	36	251		

Excavation 13461 Cu.Yd
Embankment 3688 Cu.Yd
Emb 15% 4241 Cu.Yd.

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110

658+00
913.72
911.1 — 65 — 913.30 — Ex 4" F.T. — 914.0 — 2 — 910.6 — 167 — 913.30 — 914.67 — 911.3

657+00
914.22
911.7 — 49 — 913.90 — Ex 4" F.T. — 914.67 — 6 — 911.2 — 180 — 913.90 — 914.67 — 911.4

656+00
914.04
912.2 — 6 — 914.47 — 915.24 — 36 — 911.8 — 35 — 914.47 — 16 — 915.24 — 2 — 50 — 911.7

655+00
915.04
912.6 — 32 — 914.86 — 915.63 — 5 — 912.2 — 90 — 914.86 — 915.63 — 10 — 5 — 913.8

654+00 & Median Cross-Over
913.84
912.3 — 36 — 915.04 — 915.81 — 7 — 912.5 — 9 — 5 — 915.04 — 915.81 — 28 — 18 — 911.2

653+00
912.14
911.1 — 8 — 915.01 — 915.78 — 130 — 912.3 — 915.01 — 915.78 — 120 — 14 — 910.8

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

X-SECTIONS STA. 653+00 TO STA. 658+00

FED. RD. DIVISION	STATE	PROJECT		133
2	OHIO			466

AUGLAIZE COUNTY
AUG-25-5.05

CULVERT DATA
SIZE - 15" X 70'
TYPE - 15" S-27 P.C. 3 & 4.
WORK REQUIRED - Construct 15" X 70' S-27 Pipe For Roadway Culverts At Sta 664+00 Rt. With Standard End Walls 5' Rt. & 75' Rt. As Shown.

NOTE: STA. 664+49.88 BACK = STA. 660+47.66 AHEAD

+10 Fill Median to Elev. 907.7

664+00
912.71
907.5 — 909.70 — 910.47 — 906.2 — F.L. 906.2 — 909.70 — 910.47 — 811 — F.L. 905.9
Prop. 15" X 70' S-27 Pipe @ 0.428' ft.

663+00
913.22
907.8 — 910.30 — 911.07 — 907.4 — 910.30 — 911.07 — 683 — 907.8

662+00
913.02
908.7 — 910.30 — 911.67 — 908.2 — 910.30 — 911.67 — 487 — 909.7

661+00
913.22
909.3 — 911.50 — 912.27 — 908.8 — 911.50 — 912.27 — 471 — 910.2

660+00
913.32
909.9 — 912.10 — 912.87 — 87 — 909.4 — 912.10 — 912.87 — 253 — 910.5

659+00
913.62
910.5 — 912.70 — 913.47 — 74 — 910.0 — 912.70 — 913.47 — 232 — 910.8
Ex 4' F.T.

Sta 658+00

ESTIMATED QUANTITIES

ITEM E-2	Excavation For Structures	22 Cu. Yds.
ITEM S-1	Concrete For Structures Class "E"	0.52 Cu. Yds.
ITEM S-27	Pipe For Roadway Culverts 15" Sec. M-6.8(b) or Sec. M-6.6(b)	70 Lin. Ft.

	End Area		Volume	
	Cut	Fill	Cut	Fill
	811	0		
			2767	0
	683	0		
			2167	0
	487	0		
			1774	0
	471	0		
			1502	0
	340			
			1196	2
	306	1		
			1165	6
	323	2		

X-SECTIONS STA. 659+00 TO STA. 664+49.88

FED. HIS. DIVISION	STATE	PROJECT	
2	OHIO		

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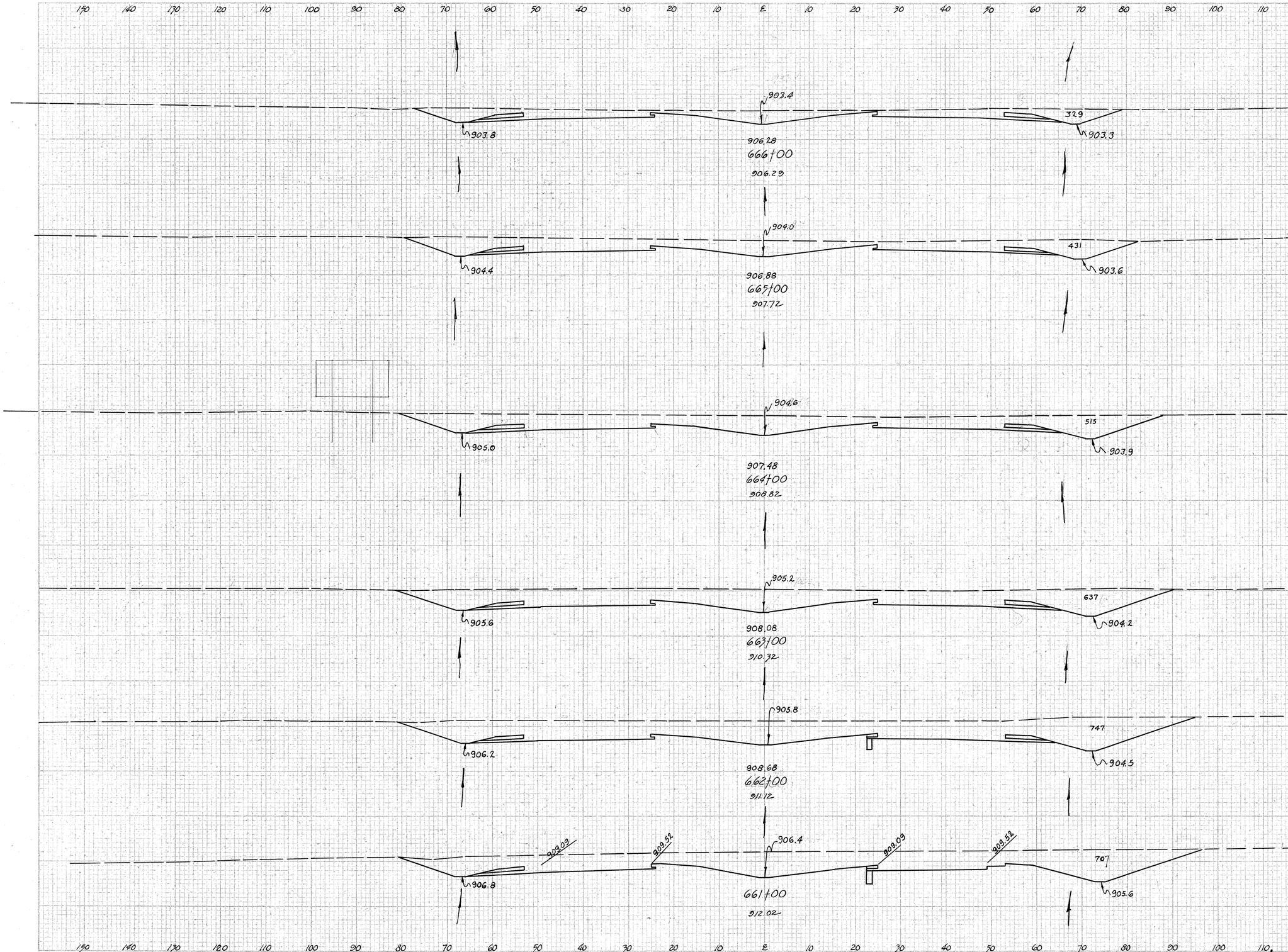
466

AUGLAIZE COUNTY
AUG-25-5.05



	End Area		Volume	
	Cut	Fill	Cut	Fill
	329	0		
			1407	0
	431	0		
			1752	0
	515	0		
			2133	0
	637	0		
			2563	0
	747	0		
			2693	0
	707	0		
			2874	0
	811	0		

X-SECTIONS STA. 661+00 TO STA. 666+00

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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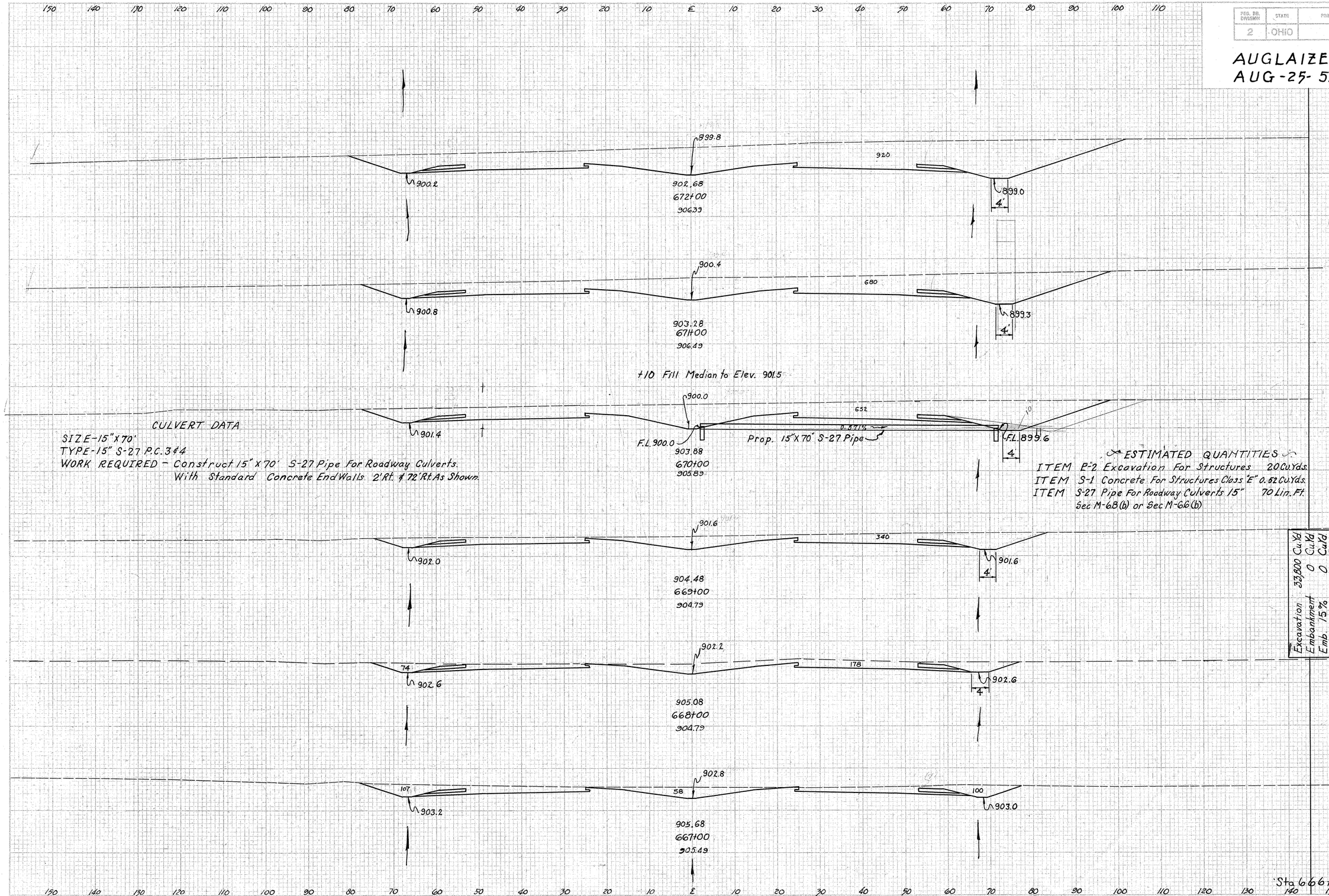
466

AUGLAIZE COUNTY
AUG-25-5.05



CULVERT DATA

SIZE-15"X70'
TYPE-15" S-27 P.C. 3&4
WORK REQUIRED - Construct 15" x 70' S-27 Pipe For Roadway Culverts.
With Standard Concrete End Walls 2'Rt. & 72'Rt. As Shown.

ESTIMATED QUANTITIES

ITEM E-2 Excavation For Structures 20 Cu Yds.
ITEM S-1 Concrete For Structures Class "E" 0.62 Cu Yds.
ITEM S-27 Pipe For Roadway Culverts 15" 70 Lin. Ft.
Sec M-68(b) or Sec M-66(b)

	End Area		Volume	
	Cut	Fill	Cut	Fill
20				
920	0			
			2963	0
680	0			
			2467	0
652	0			
			1837	0
340	0			
			1096	0
252	0			
			957	0
265	0			
			1100	0
Sta. 666+00	329	0		

Excavation	33,800 Cu Yd	
Embankment	0	Cu Yd
Emb. 15%	0	Cu Yd

X-SECTIONS STA. 667+00 TO STA. 672+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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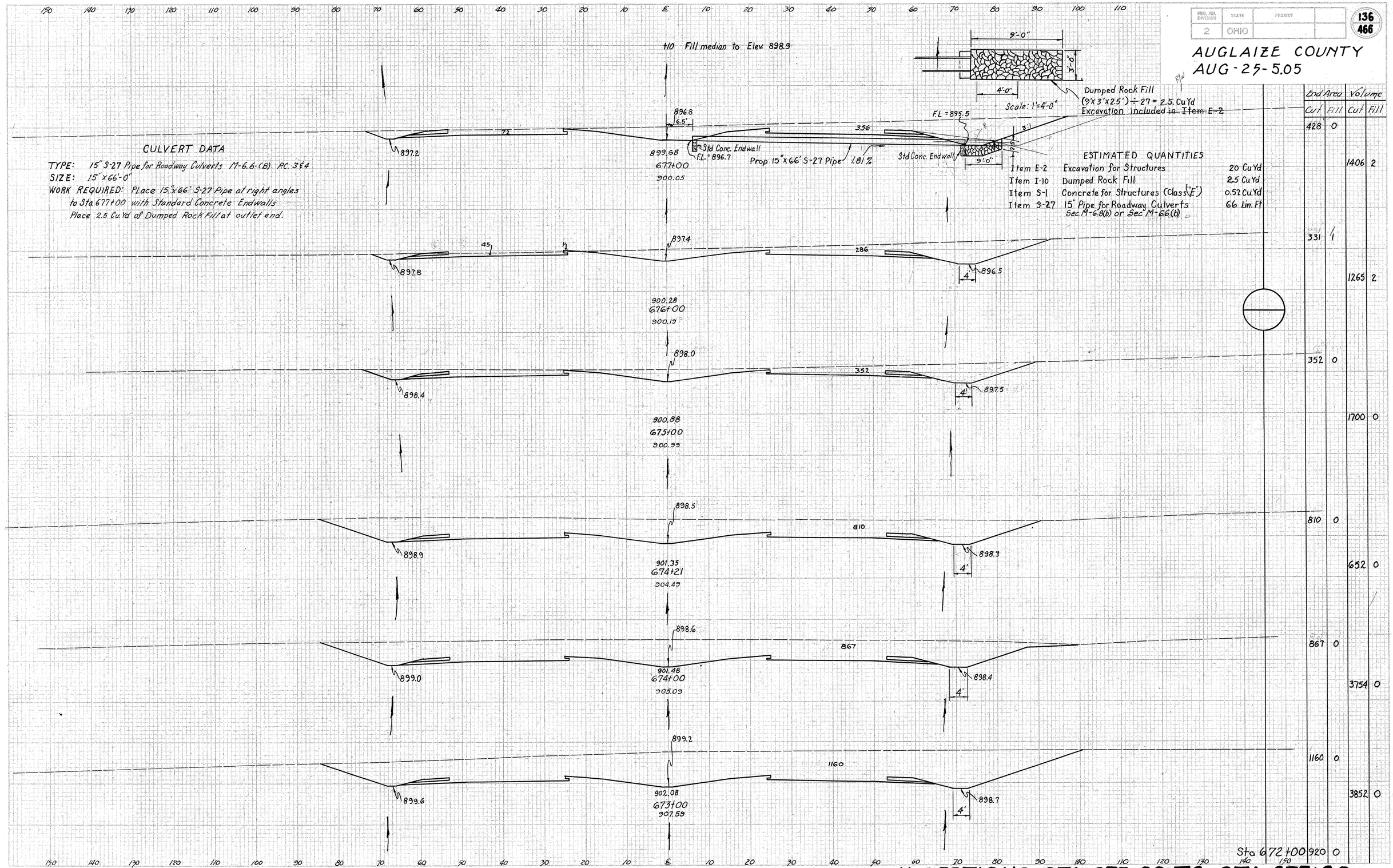
466

AUGLAIZE COUNTY
AUG-25-5.05



CULVERT DATA

TYPE: 15" S-27 Pipe for Roadway Culverts M-6.6-(CB) P.C. 384
SIZE: 15"x66'-0"
WORK REQUIRED: Place 15"x66' S-27 Pipe at right angles to Sta 677+00 with Standard Concrete Endwalls
Place 2.5 Cu Yd of Dumped Rock Fill at outlet end.

ESTIMATED QUANTITIES

Item E-2	Excavation for Structures	20 Cu Yd
Item I-10	Dumped Rock Fill	2.5 Cu Yd
Item S-1	Concrete for Structures (Class "E")	0.52 Cu Yd
Item S-27	15" Pipe for Roadway Culverts Sec M-6.8(b) or Sec M-6.6(b)	66 Lin. Ft

End Area		Volume	
Cut	Fill	Cut	Fill
428	0		
		1406	2
331	1		
		1265	2
352	0		
		1700	0
810	0		
		652	0
867	0		
		3754	0
1160	0		
		3852	0
920	0		

X-SECTIONS STA. 673+00 TO STA. 677+00

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY
AUG-25-5.05

	End Area		Volume	
	Cut	Fill	Cut	Fill
894.0	550	14		
536			1365	14
894.2	790	0		
750			2606	0
894.5	617	0		
617			1863	0
894.7	820	0		
820			873	0
894.8	752	0		
752			2748	0
895.1	732	0		
732			2148	0
Sta. 677+00	428	0		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

894.1 — 893.0 — 1:1 — 2:1 — 4' — 536

896.97
681+55
897.75

894.4 — 895.0 — 750

897.28
681+00
900.15

895.0 — 895.6 — 617

897.88
680+00
899.55

895.4 — 896.0 — 820

898.30
679+30
900.85

895.6 — 896.2 — 752

898.48
679+00
900.75

896.2 — 897.8 — 732

899.08
678+00
901.05

X-SECTIONS STA. 678+00 TO STA. 681+55

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY
AUG-25-5.05

Included in Channel Excavation

Add for Removal & Disposal of Exist Trash

44 | 890.7 | 893.1 | 390 | 1½":1'

895.9℄
687+00
892.15

Included in Channel Excavation

75 | 890.5 | 894.0 | 416 | 14 | 1½":1'

895.98
686+00
891.75

Included in Channel Excavation

57 | 890.3 | 894.9 | 425 | 24 | 1½":1'

896.01
685+00
892.05

Included in Channel Excavation

For Structure See Detail Sheet № 347

58 | 890.1 | 72 | 55

896.12
684+00
891.32

17 | 891.0 | 893.5 | 293 | 148 | 892.5

896.36
683+00
892.42

20 | 891.8 | 893.8 | 547 | 4'-0" | 317 | 893.9

896.76
682+00
893.85

Sta.	End Area Cut	End Area Fill	Volume Cut	Volume Fill
	170	477		
			10	
			920	1654
	327	416		
			1289	1557
	369	425		
			1383	1476
	378	372		
			843	1231
	77	293		
			767	630
	337	47		
			739	51
Sta. 681+55	550	14		

Excavation 21,485 Cu.Yd.
Embankment 10,870 Cu.Yd.
Emb 15% 12,186 Cu.Yd.

X-SECTIONS STA 682+00 TO STA 687+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY
AUG-25-5.05

Included in Ramp "A"

895.82
692+00
893.28

Included in Ramp "A"

895.81
691+00
891.25

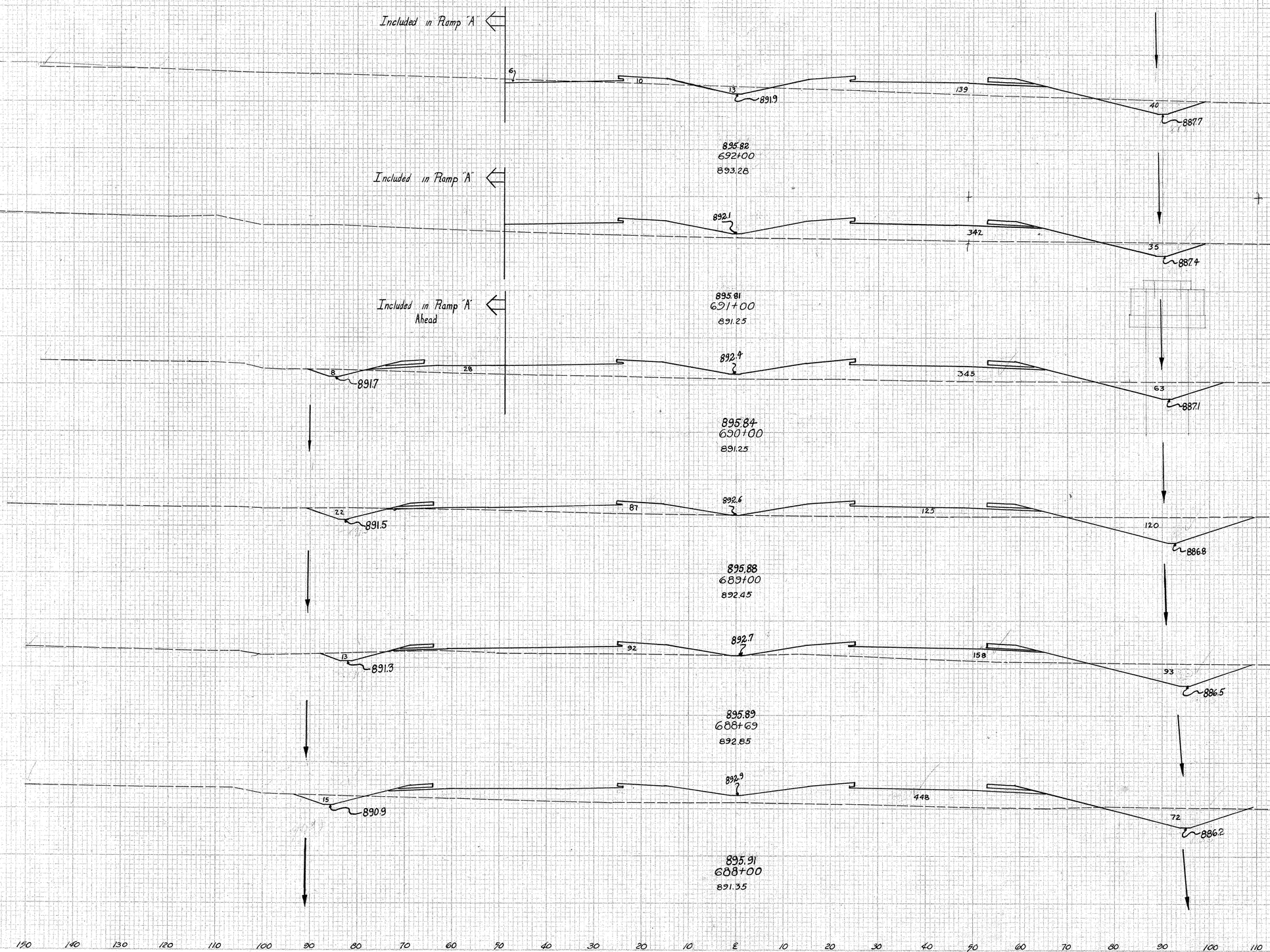
Included in Ramp "A" Ahead

895.84
690+00
891.25

895.88
689+00
892.45

895.89
688+69
892.85

895.91
688+00
891.35

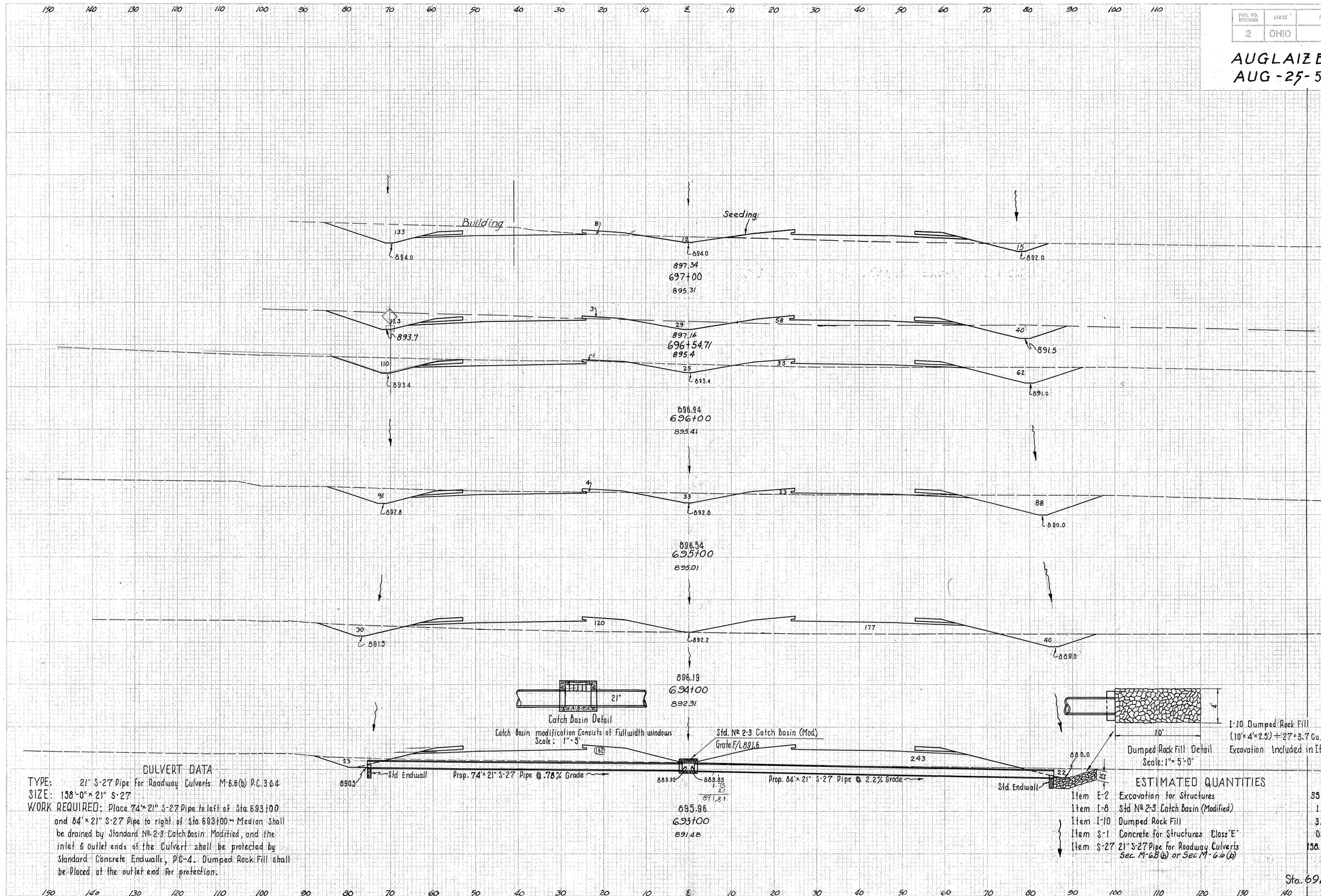


	End Area		Volume	
	Cut	Fill	Cut	Fill
	59	149		
			174	909
	35	342		
			181	1272
Ahead	63	345		
Back	71	373		
			394	1083
	142	212		
			142	265
	106	250		
			246	892
	87	448		
			476	1713
Sta 687+00	170	477		

X-SECTIONS STA. 688+00 TO STA 692+00

FED. RD. DIVISION	STATE	PROJECT		140 466
2	OHIO			

AUGLAIZE COUNTY
AUG-25-5.05



CULVERT DATA

TYPE: 21" S-27 Pipe For Roadway Culverts M-6.6(b) P.C. 3&4
SIZE: 158'-0" × 21" S-27
WORK REQUIRED: Place 74'×21" S-27 Pipe to left of Sta. 693+00 and 84'×21" S-27 Pipe to right of Sta. 693+00. Median Shall be drained by Standard № 2-3 Catch Basin Modified, and the inlet & outlet ends of the Culvert shall be protected by Standard Concrete Endwalls, P.C-4. Dumped Rock Fill shall be Placed at the outlet end for protection.

I-10 Dumped Rock Fill
(10'×4'×2.5) ÷ 27 = 3.7 Cu.Yd.
Excavation Included in Item E-2

ESTIMATED QUANTITIES

Item E-2	Excavation for Structures	35	Cu.Yd.
Item I-8	Std № 2-3 Catch Basin (Modified)	1	Each
Item I-10	Dumped Rock Fill	3.7	Cu.Yd.
Item S-1	Concrete for Structures Class "E"	0.7	Cu.Yd.
Item S-27	21" S-27 Pipe for Roadway Culverts Sec. M-6.8(b) or Sec M-6.6(b)	158	Lin.Ft

	End Area		Volume	
	Cut	Fill	Cut	Fill
	160	88		
			295	125
	192	61		
			394	96
	197	34		
			757	113
	212	27		
			522	600
	70	297		
			213	1300
	45	405		
			193	1026
Sta. 692+00	59	149		

X-SECTIONS STA 693+00 TO STA. 697+00

FED. AID PROJECT	STATE	PROJECT	
2	OHIO		

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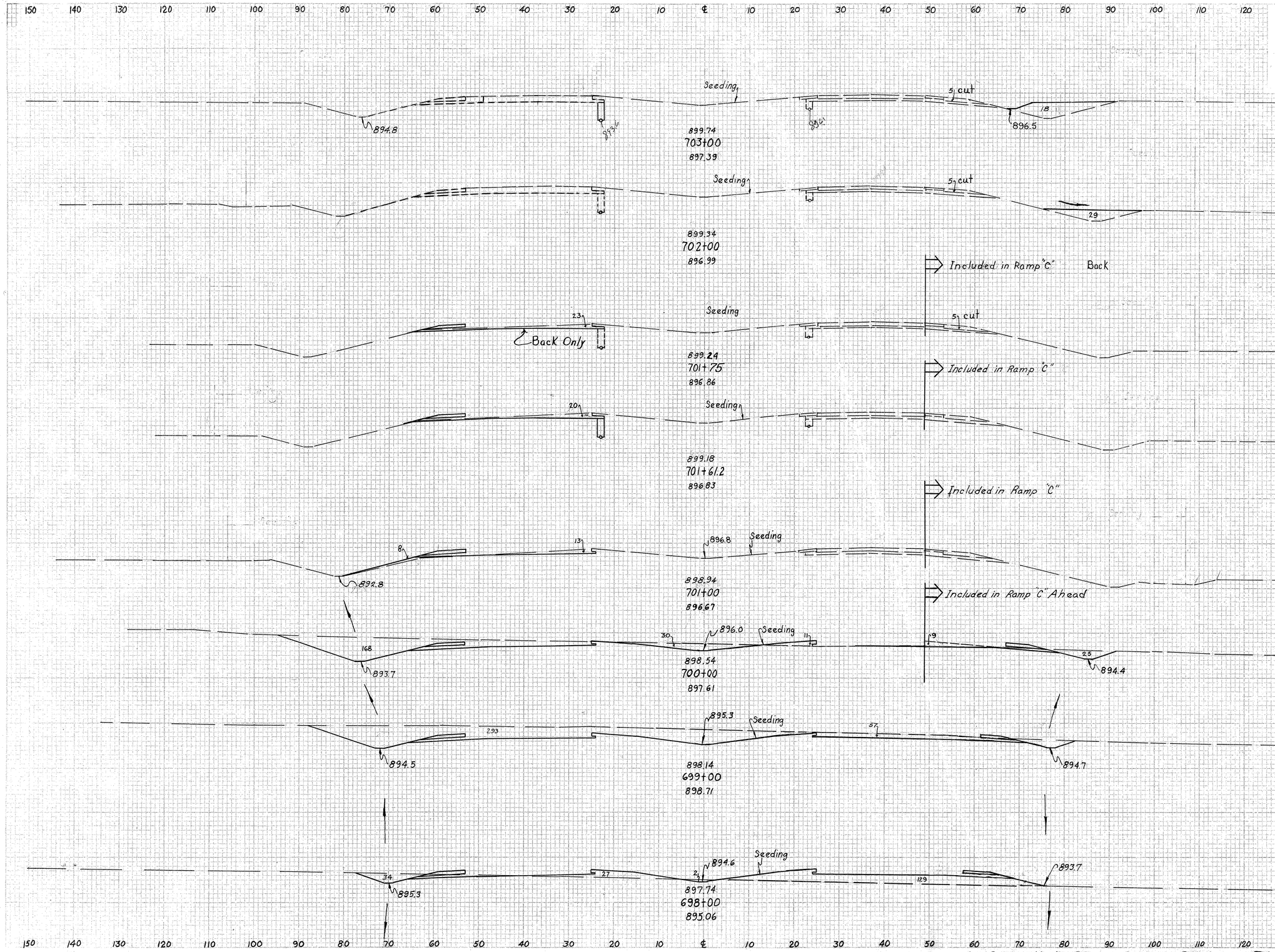
466

AUGLAIZE COUNTY
AUG-25-5.05



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	5	18		
			19	87
	5	29		
			5	14
Ahead	5	0		
Back	23	0		
			110	0
	20	0		
			37	9
	13	8		
			391	35
Ahead	198	11		
Back	23	11		
			691	20
	350	0		
			715	289
	36	156		
			363	452
Sta 697+00	160	88		

Excavation 5186 Cu.Yds.
Embankment 6705 Cu.Yds.
Emb. 115% 7711

X-SECTIONS STA. 698+00 TO STA. 703+00

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY
AUG-25 - 5.05

Seeding

897.3

Seeding

8% cut

37 34

895.8

901.17
0+00
898.57

Station Equation
Sta 708+84.04 Back
Sta 0+00 Ahead

4:1 | 18 | 18

897.1

Seeding

5% cut

40 21

895.6

901.10
708+00
898.41

Included in Ramp "D" Back only

3:1 | 32 | 19

896.9

Seeding

7% cut

52 30

895.4

900.98
707+00
898.25

Included in Ramp "B" Back only

64 36

896.7

Included in Ramp "D"

Seeding

900.78
706+00
898.09

Included in Ramp "B"

Seeding

7% cut

73

898.8

900.50
705+00
897.93

Included in Ramp "B"

Seeding

12% cut

51

898.0

900.14
704+00
897.77

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	42	37		
			159	176
	44	58		
			209	239
Ahead	69	71		
Back	32	19		
			178	102
Ahead	64	36		
Back	0	0		
			13	135
	7	73		
			35	230
	12	51		
			31	128
Sta 703+00	5	18		

X-SECTIONS STA 704+00 TO STA. 0+00

AUGLAIZE COUNTY
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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120

8+00
899.08

Seeding

901.81

7+00
898.92

Seeding

901.73

897.3

END WORK 6+70

Assume Seeding Area Sta 6+70 equal to Seeding Area Sta 6+00

4 CUT

901.65

16 CUT

9

111

897.1

6+00
898.76

Seeding

6 cut

901.57

13 cut

18

16

3:1

896.9

901.57
5+00
898.60

Seeding

901.49

13 cut

25

23

3:1

896.7

901.49
4+00
898.44

Seeding

901.41

13 cut

29

7

896.5

901.41
3+00
899.05

Seeding

901.33

15 cut

35

5

896.2

901.33
2+00
898.89

Seeding

901.25

6 cut

36

22

896.0

901.25
1+00
898.73

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
Sta 6+70	0	0		
	31	9	40	12
			122	50
	35	18		
			131	80
	36	25		
			104	100
	20	29		
			74	119
	20	35		
			89	131
	28	36		
			130	135
Sta 0+00	42	37		

Excavation	1349	Cu.Yds.
Embankment	1279	Cu.Yds.
Emb. 1.5%	1471	Cu.Yds.

X-SECTIONS STA. 1+00 TO STA. 8+00

EXIST. U.S.R. 25 AT PROP. U.S.R 33 TABLES AND CALCULATIONS
NON - PARTICIPATION

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
AUG-25-5.05

DRAINAGE TABLE

Plan and Profile Sheet No	Reference No	Detail Sheet No	STATION From	STATION To	Side	E-2 Excavation for Structures Cu.Yd.	E-12 Pipe Removed 15" & Under Lin.Ft.	E-12 Pipe Removed Over 15" Lin.Ft.	I-1 Pipe for Driveways 12" Lin.Ft.	I-3 Pipe for Roadway Drainage 8" Lin.Ft.	I-3 Pipe for Roadway Drainage under Drives & Approaches 15" Lin.Ft.	I-3 Pipe Outlet for Roadway Drainage 8" Lin.Ft.	I-5 Pipe Specials For I-3 Pipe Each	I-5 Pipe Specials For I-3 Pipe 15"x10"T Each	I-5 Pipe Specials For I-3 Pipe 15"x18"T Each	I-8 Catch Basin Std. No 12.A Each	I-16 Catch Basin Abandon Each	S-1 Concrete for Structures Class "E" Cu.Yd.	S-22 Removal of Portions of Exist. Structure	S-27 Paved Bituminous Coated Corr. Metal Pipe Sec. M-6.4(d) 36" Lin.Ft.	Special Anchor Bolts Each	Special Well Abandon Each	Special Cistern Abandon Each	Remarks
Non Federal Participation																								
146	1-D		260+54	260+64	Rt.		48		28	40		10												
146	2-D	148	263+00	Structure	Rt.	5												1.0	Lump	20	5			
146	3-D		260+38	264+07	Rt.		368										1							
146	4-D		265+00±	267+00±	Rt.																	1	1	
146	5-D		264+07	272+70±	Rt.		896																	
146	6-D		260+38	272+71	Rt.					994	254			2	1	1								
Total Non-Federal Participation to U.S. 25 Tables						5	1312		28	1034	254	10		2	1	1	1	1.0	Lump	20	5	1	1	

ITEM E-11 WATER

From Earthwork Table = 315.0 Cu.Yd.
From Drive & Approach Table; Item B-119 = 40.9 Cu.Yd.
" " " " Item I-16 = 17.5 Cu.Yd.
" " " " Item I-22 = 44.0 Cu.Yd.
Total 417.4 Cu.Yd.

417.4 × 5 ÷ 1000 = 2.1 M.Gal.
Total Non-Federal Participation To U.S.25 Calculations 2.1 M.Gal

ITEM I-9 STONE UNDERDRAIN №2

Estimated 58 Lin. Ft of Stone Underdrain to be placed Approximately every 50 feet as directed by the Engineer.
Total Non-Federal Participation to U.S.25 Calculations 58 Lin.Ft.

ITEM L-9 COMMERCIAL FERTILIZER (10-6-4)

From Roadside Improvement Table = 1341 Sq.Yd.

1341 × 9/1000 × 20/2000 = 0.12 Tons
Total Non-Federal Participation to U.S. 25 Calculations 0.12 Tons

EARTHWORK TABLE

Sheet No	STATION From	STATION To	Excavation Cu.Yd.	Embankment Cu.Yd.	Embankment + 15% Cu.Yd.	ROADSIDE IMPROVEMENT L-9 Seeding & Protection Sq.Yd.
149	260+36.83	264+41	279	315	362	1106
Seeding for Canning Factory Road Approach Removal						235
Total to Exist 25 Calculations			279	315	362	1341
Total Non-Federal Part to U.S. 25 Tables			279			1341

EARTHWORK CALCULATIONS

Embankment + 15% = 362 Cu.Yd.
Excavation to reduce Borrow = 279 Cu.Yd.
Total = 83 Cu.Yd.
Total Borrow required for Exist. U.S. 25 at Prop. U.S. 33 Forwarded to Non-Federal Participation U.S. 25 Tables 83 Cu.Yd.

GUARD RAIL TABLE

Plan & Profile Sheet No	Reference No	STATION From	STATION To	Side	I-15 Guard Rail Steel Beam Type "Deep" Straight Lin. Ft.	Remarks
146	1-G	266+36	267+36	Rt	100	
Total Non-Federal Participation To U.S. 25 Tables					100	

DRIVE AND APPROACH TABLE

Plan & Profile Sheet No	Reference No	STATION From	STATION To	B-35 Asphaltic Concrete Leveling Course Cu.Yd.	B-35 Asphaltic Concrete Base Course Cu.Yd.	B-119 Crushed Aggregate Base Course Cu.Yd.	I-16 Stabilized Crushed Aggregate Shoulders & Approaches Cu.Yd.	I-22 Subbase Cu.Yd.	T-30 Bituminous Prime Coat Gal.	T-35 Asphaltic Concrete Surface Course Cu.Yd.	E-1 Compacted Subgrade Sq.Yd.	E-6 Removal & Disposal of Exist. Curb & Gutter Lin.Ft.	Remarks
146	1-A	260+70					17.5		38.7	5.7			
146	2-A	260+36.83	264+40.83	37.3	14.3	40.9		44.0	64.5	39.4	140.9		
146	3-A	271+34.15	272+37.63	7.3						9.4			
146	4-A	266+89.33										208	
Total Non-Federal Participation													
	To U.S. 25 Calculations			44.6	14.3	40.9	17.5	44.0	103.2	54.5	140.9	208	
Total to Exist U.S. 25 Calculations						40.9	17.5	44.0					

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
AUG 25 ~ 5.05

SHEET

BEGIN

Mon.

245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260

12" Corr. Pipe

111 ℓ Field Dr.

12" Corr. Pipe

Conc. Box Culvert

Catch Basin

12" Corr. P. Pipe

12" Corr. Pipe

Dr.

12" Corr. Pipe

71 ℓ Drive Crushed Stone

Conc. 15ly Fr. Bar

162 ℓ Field

191 ℓ Drive (Gravel)

131 ℓ Drive Gravel

Prop. Future Southbound

P.C.

P.T.

℄ of Exist. U.S.R. 25

Mon

P.C.

Catch Basin

10" Field Tile

SHEET

END

245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260

909 908 907 906 905 904 903

908.51 907.66 906.77 905.78 904.99 904.82 905.19 905.93 906.51 906.63 906.63 906.49 906.05 905.42 904.76 904.37

245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260

PLAN & PROFILE STA. 245+00 TO STA. 260+00 EXIST. U.S.R. 25 AT PROPOSED U.S.R. 33

FED. R.D. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
AUG-25-5.05

SHEET

BEGIN

Sta. 260+38-18' Rt.± Begin 19" I-3 Under Dr. & Appr.-F/L 897.9±

Sta. 260+36.83-BEGIN FEATHER
BEGIN WORK
Sta. 260+61.83-BEGIN FLARE

Prop 40'of I-3 Pipe for Roadway Drainage with 16 of I-3 Outlet Pipe 8'

1-A

℄ Proposed Future Southbound

P.I.

260 | 261 Resurface with 1¼" T-95 & 1¼" B-35 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275

19' FT ℄ E-12 Pipe Removed

12" CM Pipe

Prop 28"×12"-I-1 Pipe for Driveway

E-12 Pipe Removed

℄ Existing U.S.R. 25

15"I-3

P.I.

15"I-3 Under Dr. & Appr.

40° R.

50' R.

90°

35' Rt.

100

130

136

488

12

1-D

1-C

1-B

1-A

2-D

2-A

3-D

Sta. 263+67.83-Exist. U.S.R. 25 = Sta. 0+00.4

Sta. 263+86.83-Exist. U.S.R. 25 = Sta. 0+00"B"

12" F.E.

Sta. 264+40.83-END FEATHER

Ex. C.B. Abandon

U.S.G.S. Marker

Conc. Box Culvert

Canning Factory Road Approach to the West to Remain in Place
Approach to the East Remove & Seed

Sta. 263+48-30' Rt.

15"×15" Tee

Conc. Curb & Gutter

Sta. 268+36.71-Exist. U.S.R. 25 = Sta. 100+00-Prop. U.S.R. 33

Resurface with 1¼" T-95 & 1¼" B-35

E-12 Pipe Removed

To Remain in Place

15" I-3 Pipe

15"I-3 Under Dr. & Appr.

12" Inlet

To Remain in Place
2'×2' Catch Basin

℄ Existing U.S.R. 25

Sta. 271+89.13-U.S.R. 25 = Sta. 0+00 (D)

Sta. 271+34.15
BEGIN FEATHER

Sta. 271+59.15
END FEATHER

Sta. 272+32.83
BEGIN FEATHER

Sta. 272+57.83
END FEATHER

Sta. 272+76
END WORK

℄ Proposed Future Southbound

P.I.

SHEET

END

Sta. 271+70.06-U.S.R. 25 = Sta. 0+00 (C)

Sta. 271+28.57-46 Rt. Sta. 0+53.24-36' Rt.

Proposed Future Ramp "C"

Proposed Ramp "D"

End 15"I-3 Pipe

Sta. 272+32.63-32' Rt.-Sta. 0+47.88 (D)-48' Lt.

Sta. 272+71-31' Rt. F/L 897.36

3-A

1-G

6-D

5-D

4-D

4-A

2-C

2-D

See Sheet No. 148 for Details

Sta. 263+09.83-72' Rt.-Sta. 0+74'A'-36' Rt.

Proposed Ramp "A"

Proposed Future Ramp "B"

Sta. 264+11.83-32' Rt. I-3 Ne. 1-2 A.C.B. F/L Grate 900.4 F/L I-3 Ne. 898.8

Item E-8 208 Lin. Ft. Conc. Curb & Gutter to be Removed

1½ Sty Stucco

Abandon

Cistern Abandon

Outhouse

Garage

Brooder House

Barn

For Building Removal See Miscellaneous Removal Note (General Notes)

Canning Factory Road

Man ±89.35 ℄

Sta. 101+00-BEGIN FLARE

Cond. Curb & Gutter

8" F.E.

8" F.L.

Sta. 101+00-BEGIN FLARE

Abandon

Well Abandon

℄ Line Drive

Field Tile

℄ Field Drive

FL 900.1

FLARE

℄ Field Tile

FLARE

Prop 8" Outlet Pipe

Sta. 260+18' Rt. ± Begin 19"

I-3 Under Dr. & Appr. -F/L 897.9±

Sta. 260+36.83-BEGIN FEATHER

BEGIN WORK

Sta. 260+61.83-BEGIN FLARE

Prop 40' of I-3 Pipe for Roadway Drainage with 16' of I-3 Outlet Pipe 8"

Sta. 263+09.83-Sta. 0+74'A'-36' Rt.

Sta. 263+67.83-Exist. U.S.R. 25 = Sta. 0+00.4

Sta. 263+86.83-Exist. U.S.R. 25 = Sta. 0+00"B"

Sta. 264+40.83-END FEATHER

Sta. 271+34.15
BEGIN FEATHER

Sta. 271+59.15
END FEATHER

Sta. 272+32.83
BEGIN FEATHER

Sta. 272+57.83
END FEATHER

Sta. 272+76
END WORK

Sta. 271+70.06-U.S.R. 25 = Sta. 0+00 (C)

Sta. 271+89.13-U.S.R. 25 = Sta. 0+00 (D)

Sta. 271+28.57-46 Rt. Sta. 0+53.24-36' Rt.

Sta. 272+32.63-32' Rt.-Sta. 0+47.88 (D)-48' Lt.

Sta. 272+71-31' Rt. F/L 897.36

Sta. 268+36.71-Exist. U.S.R. 25 = Sta. 100+00-Prop. U.S.R. 33

Sta. 101+00-BEGIN FLARE

Sta. 101+00-BEGIN FLARE

Sta. 263+09.83

Proposed Profile 2½"± above Existing Profile

Sta. 264+15.83

Sta. 271+58.15

Proposed Profile 2½"± above Existing Profile

Sta. 272+32.83

906
905
904
903

904.37 | 904.14 | 903.92 | 903.80 | 903.78 | 903.70 | 903.62 | 903.79 | 904.09 | 904.28-℄ Prop. U.S.33 | 904.41 | 904.66 | 904.83 | 904.86 | 904.29 | 904.32 | 904.52

260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275

PLAN & PROFILE - STA. 260+00 - STA. 275+00 - EXIST. U.S.R. 25 AT PROPOSED U.S.R. 33

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
AUG-25~5.05

SHEET

START

Rt. 87

Rt.

Rt.

Concrete Post

FA124

12" Corr. Pipe

Concrete Block Posts

163 ℄ Drive

2 Sty Brick

275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290

904
903
902
901
900

904.62 904.39 903.97 903.13 902.27 901.85 901.44 900.82

PLAN & PROFILE STA. 275+00 TO STA. 290+00 EXIST. U.S.R.25 AT PROPOSED U.S.R.33

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
AUG-25-5.05

~ CULVERT DATA ~

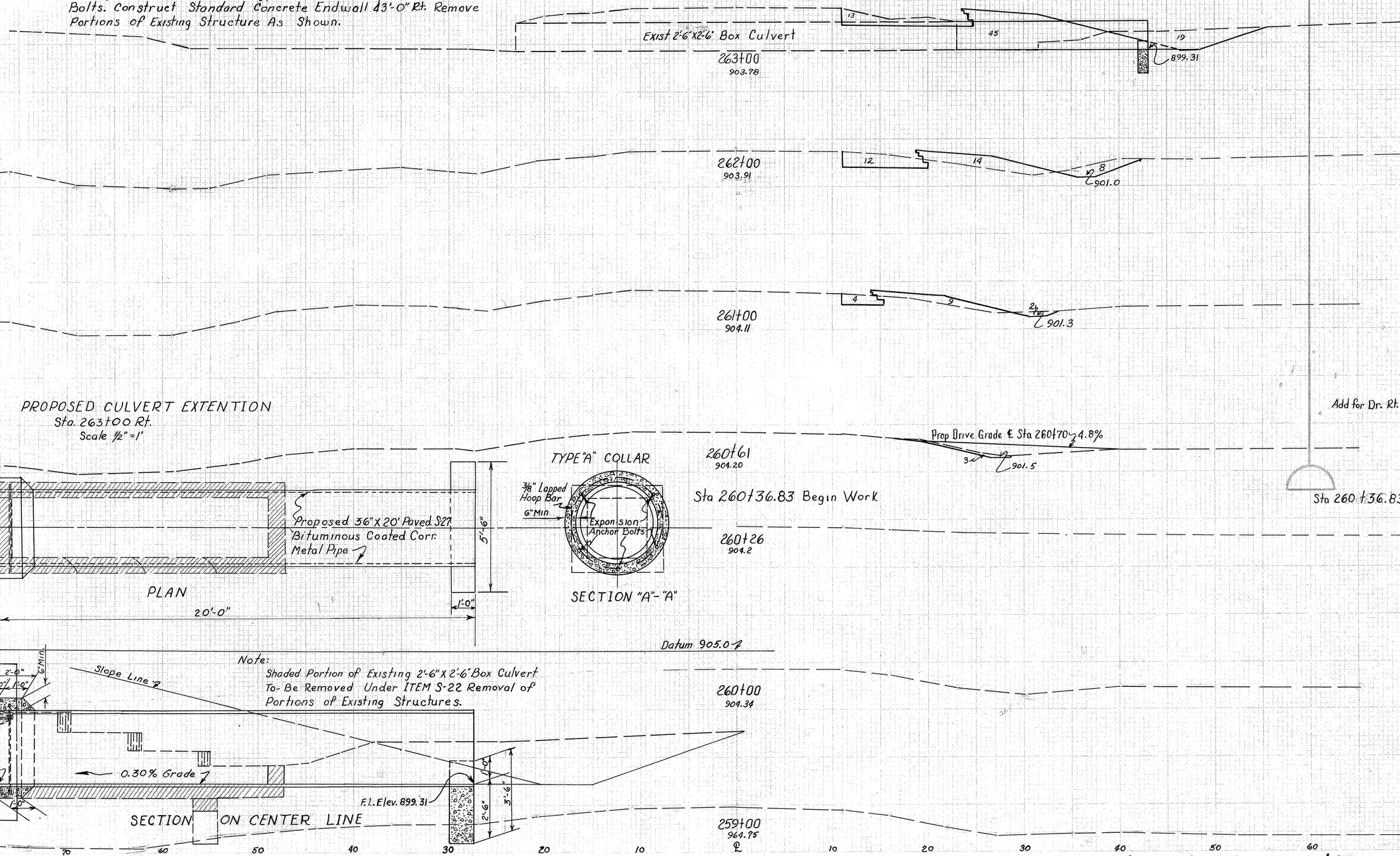
TYPE: S-27 P.C. 3 & 4. Paved Bituminous Coated Corrugated Metal Pipe Sec. M-6.4 (d).

SIZE: 36"X20'

WORK REQUIRED: Extend Existing 2'-6"X2'-6" Box Culvert At Sta 263+00 on Rt With 36"X20' S-27 Paved Bituminous Coated Corrugated Metal Pipe For Roadway Culverts. Connect Proposed S-27 Pipe To Existing Concrete Box With Type "A" Collar & Expansion Anchor Bolts. Construct Standard Concrete Endwall 43'-0" Rt. Remove Portions of Existing Structure As Shown.

~ ESTIMATED QUANTITIES ~

ITEM E-2	Excavation For Structures	5	Cu.Yds
ITEM S-1	Concrete For Structures Class "E"	1.0	Cu.Yds
ITEM S-22	Removal of Portions of Existing Structures	"Lump"	Lump
ITEM S-27	Paved Bituminous Coated Corrugated Metal Pipe For Roadway Culverts Sec M6.4 (d) 36"	20	Lin Ft.
ITEM SPECIAL	Expansion Anchor Bolts	5	Each.



	End Area		Volume	
	Cut	Fill	Cut	Fill
		32	45	
		96	109	
	20	14		
		48	43	
	6	9		
	7	7		
	1	9		
	3	0		
	2	0		

EXIST U.S.R. 25 Sta 259+00 to Sta 263+00

CO. RD. NUMBER	STATE	PROJECT
2	OHIO	

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AUGLAIZE COUNTY
AUG-25-5.05

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50

266+00
903.55

Add For Excavation & Back Fill of East Bituminous Approach Return on Canning Factory Road Assume Depth.

265+00
903.67

Sta. 264+41 Zero Section

264+16
903.74

12 6 Back Only

6 Ahead 3 Back 4 900.6

Excavation 279 Cu.Yd.
Embankment 315 Cu.Yd.
Embankment 115% 362 Cu.Yd.

Included in Ramp "A" Quantities "Back."

264+00
903.75

5 29 5 900.5

Included in Ramp "A" Quantities "Ahead."

263+25
903.77

7 41 9 900.3

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

	End Area Cut	End Area Fill	Volume Cut	Volume Fill
			93	93
	0	0		
			2	3
Ahead	4	6		
Back	16	9		
			8	11
Ahead	10	29		
Back	0	0		
			0	0
Ahead	0	0		
Back	16	41		
			22	40
Sta 263+00	32	45		

EXIST U.S.R. 25 Sta 263+25 to Sta 266+00

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

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AUGLAIZE COUNTY
AUG-25~5.05

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

END AREA		VOLUME	
CUT	FILL	CUT	FILL

272+76
904.27 End Work

272+33
904.3 Zero Section

271+40
904.53 Zero Section

271+00
904.63

270+00
904.65

269+00
904.37

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60

EXIST U.S.R. 25 Sta. 269+00 to Sta. 272+76

505-13.29
U.S. 25

EXIST. U.S.R. 25 AND PROP. U.S.R. 33 INTERCHANGE TABLES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
AUG.-25-5.05

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PAVEMENT QUANTITIES

Sheet Nº		Ramp Nº	I-12 Standard Concrete Curb Type 2-A	I-18 Stabilized Crushed Aggregate for Shoulder & Approach	I-21 Standard Conc Median Pavement Type 1 as per plan	I-22 Subbase	E-1 Compacted Subgrade	T-71 Reinforced Portland Cement Concrete Pavement		Remarks
			Lin. Ft.	Cu. Yd.	Sq. Yds	Cu. Yd.	Sq. Yd.	Sq. Yds.		
154		Ramp "A"	726	205	16	1061	3542	3542		
160		Ramp "D"	921	214		1230	3791	3791		
Total Non-Federal Participation to U.S.25 Calculations			1647	419	16	2291	7333	7333		
Total To Interchange Calculations				419		2291				

DRAINAGE TABLE

Sheet Nº	Reference Nº	Detail Sheet Nº	STATION From	STATION To	Side	E-2 Excavation For Structures		S-4 Concrete For Structures Class "C"	S-27 Paved Bit. Coated Corr. Metal Pipe Sec. M.6.4 (a) Lin. Ft. 15"	24"	S-27 Pipe For Roadway Culverts Sec. M.6.8 (b) Sec. M.6.6 (b) Lin. Ft. 21"			Remarks
						Cu. Yd.		Cu. Yd.						
153	1-D	155	0+52 (A)	Structure	℄	16		0.82		60	1"			
159	1-D	161	0+50 (D)	Structure	℄	10		1.28	104	12"				
159	2-D	163	12+00 (D)	Structure	℄	5		0.72			68			
Total Non-Federal Participation To US 25 Tables						31		2.82	104	60	68			

EARTHWORK TABLE

Sheet Nº	Ramp Nº	Excavation	Embankment	Embankment + 15%	ROADSIDE IMPROVEMENT L-9 Seeding and Protection
		Cu. Yd.	Cu. Yd.	Cu. Yd.	Sq. Yd
157	Ramp A	2780	6451	7419	14,250
162	Ramp D	1156	5256	6044	12,473
Total Non-Federal Participation To U.S.25 Tables		3936			26,723
Total To Interchange Calculations		3936	11,707	13,463	26,723

EARTHWORK CALCULATIONS

Embankment + 15% = 13,463 Cu. Yd.
Excavation to reduce Borrow = 3,936 Cu. Yd.
Total = 9,527 Cu. Yd.

Borrow required For Exist 25 and Prop. U.S. 33 Interchange Forwarded to Non-Federal Participation U.S. 25 Calculations. 9,527 Cu. Yd.

ITEM E-11 WATER

From Earthwork Table = 11,707 Cu. Yd.
From Pavt. Quantities Table Item I-18 419 Cu. Yd.
Item I-22 2,291 Cu. Yd.
Total = 14,417 Cu. Yd.

14,417 x 5 ÷ 1000 = 72.1 M. Gal
Total Non-Federal Participation to U.S. 25 Calculations 72.1 M.G

ITEM L-9 COMMERCIAL FERTILIZER (10-6-4)

From Roadside Improvement Table = 26,723 Sq. Yds.

26,723 x 9/1000 x 20/2000 = 2.41 Tons.
Total Non-Federal Participation to U.S. Calculations 2.41 Tons

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Auglaize-25-5.05

TABLES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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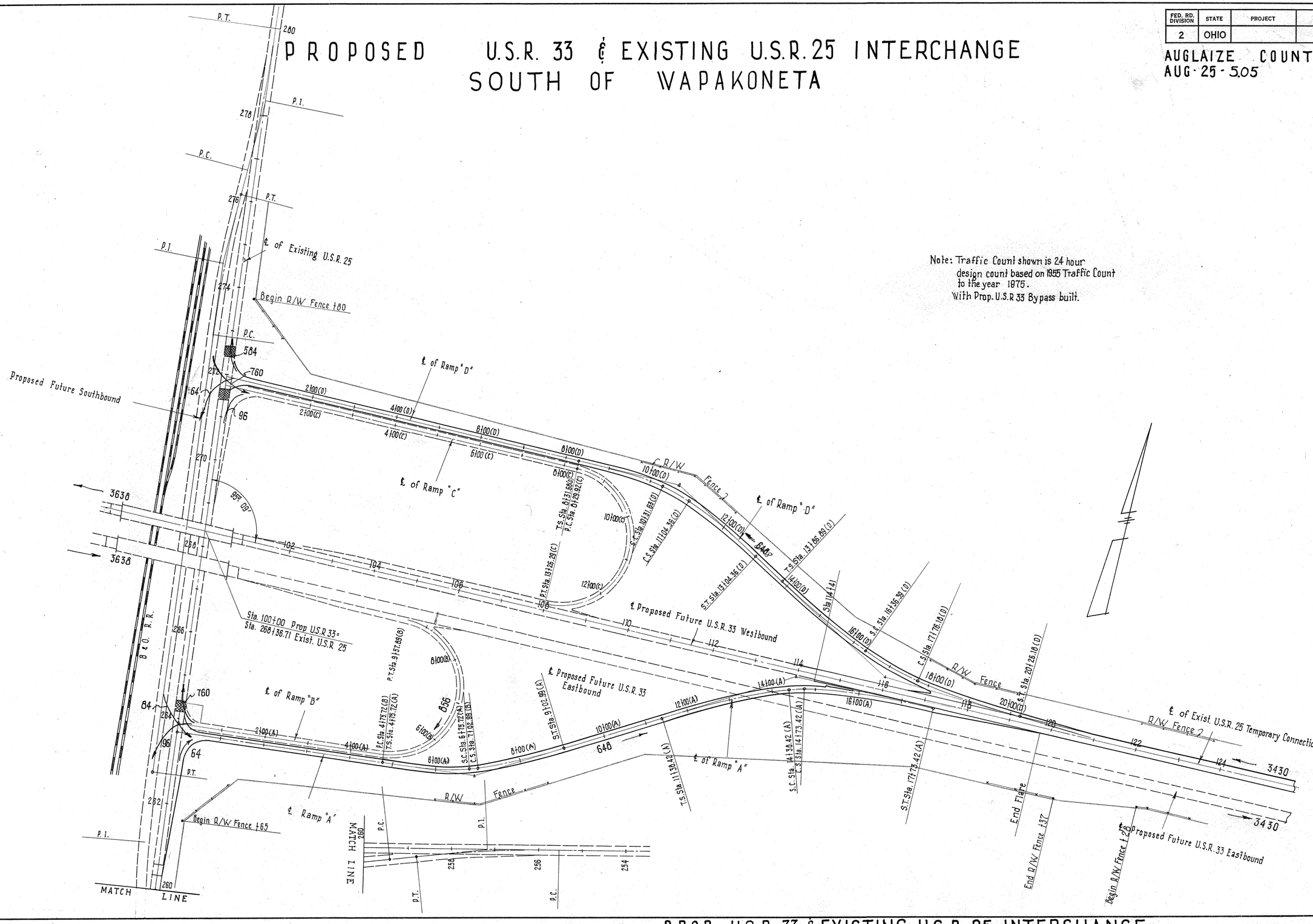
AUGLAIZE COUNTY
AUG-25-5.05

PROPOSED U.S.R. 33 & EXISTING U.S.R. 25 INTERCHANGE SOUTH OF WAPAKONETA

Note: Traffic Count shown is 24 hour design count based on 1955 Traffic Count to the year 1975.
With Prop. U.S.R 33 Bypass built.



PROP. U.S.R. 33 & EXISTING U.S.R. 25 INTERCHANGE

FED. RO. DIVISION	STATE	PROJECT	
2	OHIO		

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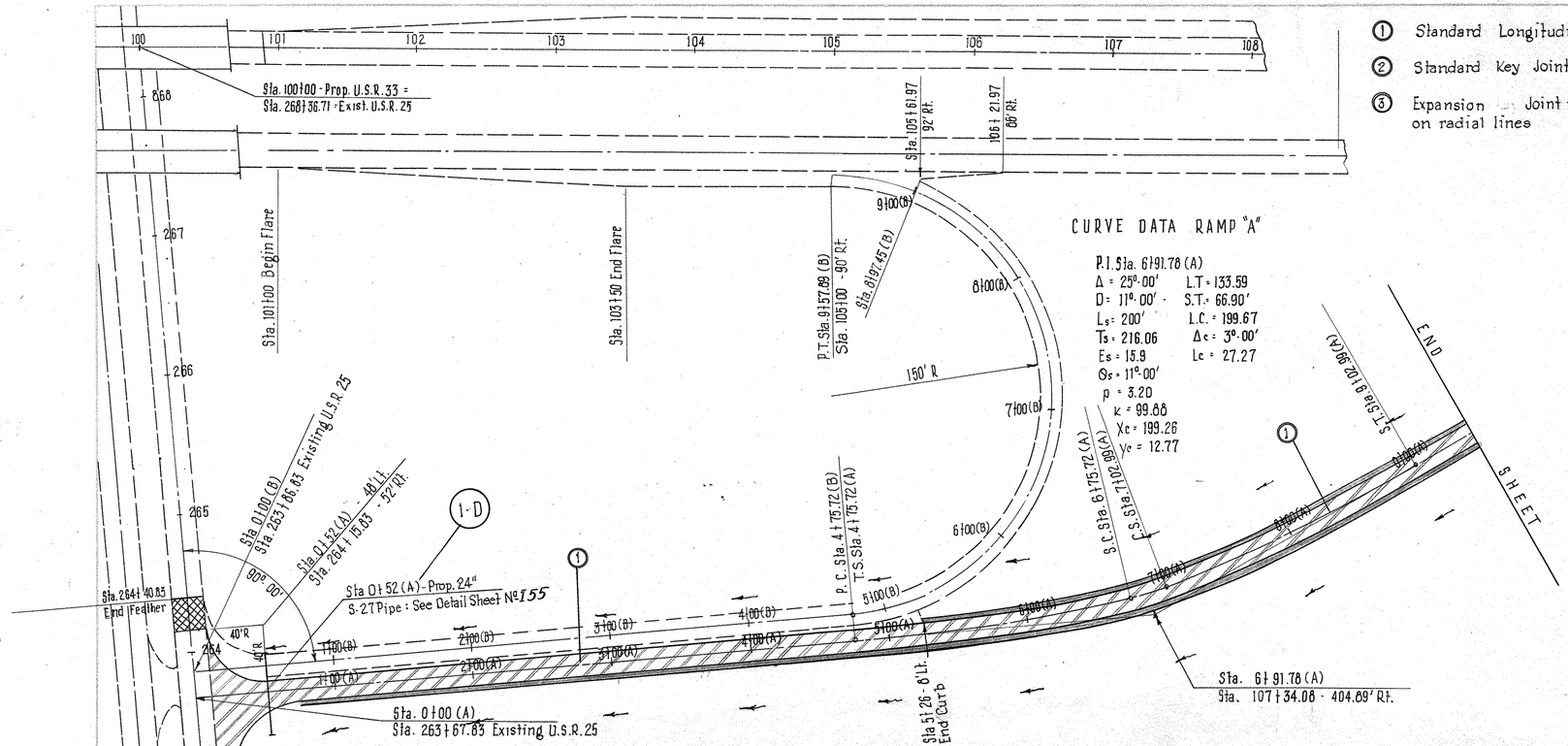
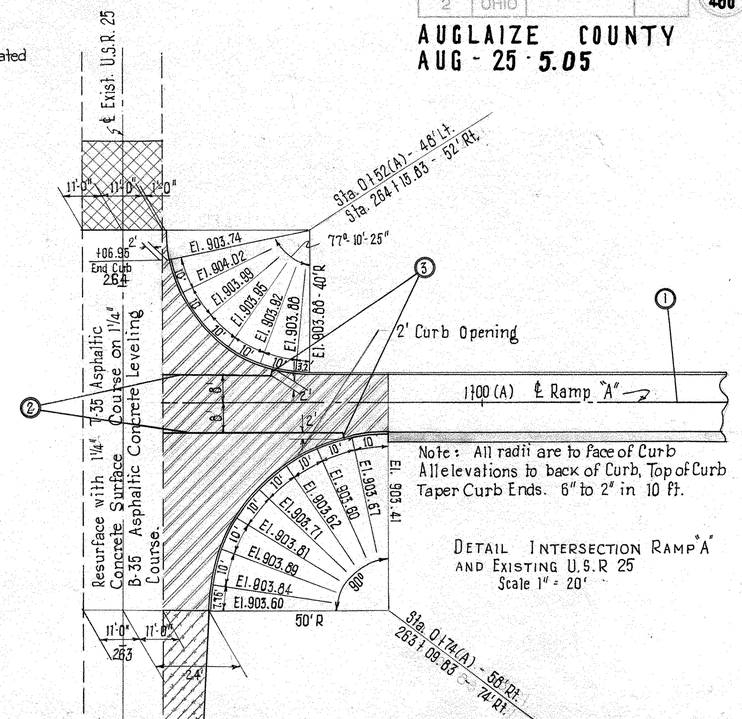
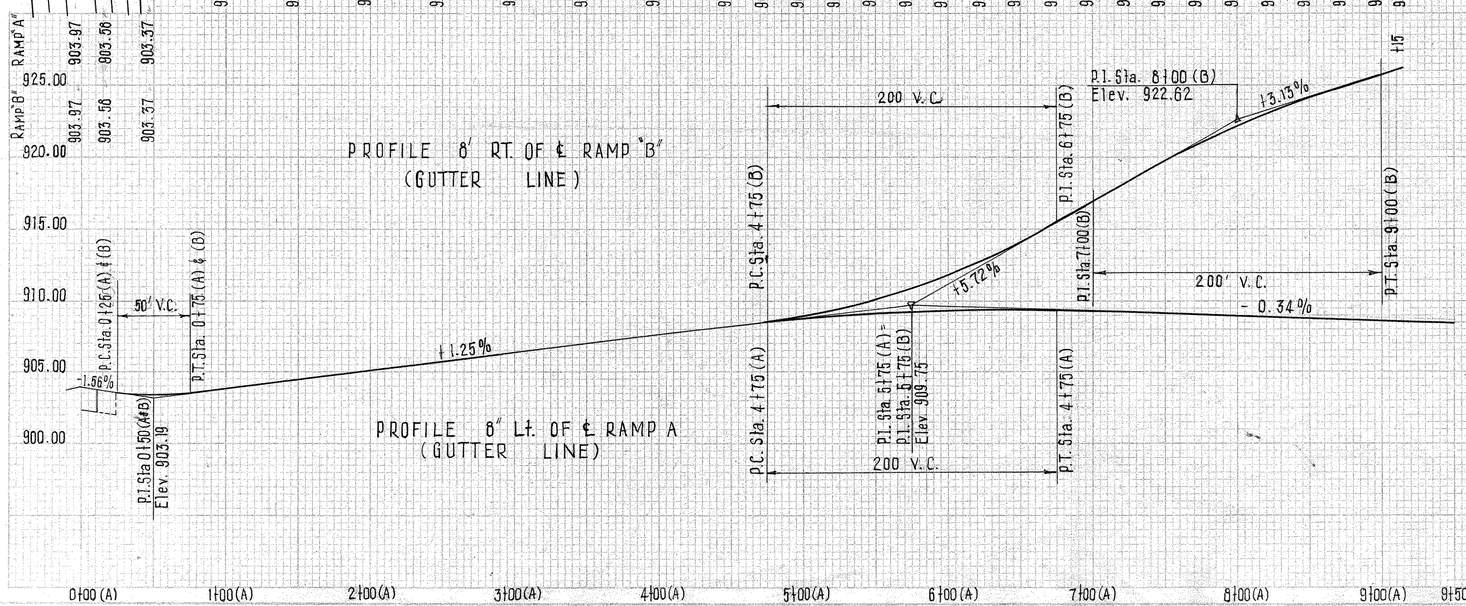
AUGLAIZE COUNTY
AUG - 25 - 5.05

1. Standard Longitudinal Joint
2. Standard Key Joint without Tie Bars
3. Expansion Joint without Dowels Located on radial lines





DETAIL INTERSECTION RAMP "A" AND EXISTING U.S.R 25
Scale 1" = 20'



SUPERELEVATION TABLE RAMP "A" PROP. U.S.R. 33 & EXIST. U.S.R. 25 INTERCHANGE

8' Lt.	Station	Superelevation	8' Rt.	8' Lt.	Station	Superelevation	8' Rt.
See	0+00 (A)		See	909.32	7+00 (A)	+ 1.33	910.65
Detail	0+52 (A)		Detail	909.31	C.S. 7+02.99 (A)	+ 1.33	910.64
	0+74 (A)			909.24	7+25 (A)	+ 1.26	910.50
903.50	0+75 (A)	0.25	903.25	909.16	7+50 (A)	+ 1.07	910.23
903.82	1+00 (A)	↑	903.57	909.07	7+75 (A)	+ 0.83	909.90
904.13	1+25 (A)		903.88	908.98	8+00 (A)	+ 0.59	909.57
904.44	1+50 (A)		904.19	908.90	8+25 (A)	+ 0.34	909.24
904.75	1+75 (A)		904.50	908.82	8+50 (A)	+ 0.08	908.90
905.06	2+00 (A)		904.81	908.73	8+75 (A)	- 0.10	908.63
905.36	2+25 (A)		905.13	908.64	9+00 (A)	- 0.19	908.45
905.69	2+50 (A)		905.44	908.63	9+02.99 (A)	- 0.25	908.38
906.00	2+75 (A)		905.75	908.56	9+25	- 0.25	908.31
906.32	3+00 (A)		906.07	908.46	9+50	- 0.25	908.23
906.63	3+25 (A)		906.38				
906.94	3+50 (A)		906.69				
907.25	3+75 (A)		907.00				
907.56	4+00 (A)		907.31				
907.86	4+25 (A)		907.63				
908.19	4+50 (A)		907.94				
908.50	4+75 (A)	↓	908.25				
908.50	T.S. 4+75.72 (A)	- 0.25	908.25				
908.80	5+00 (A)	- 0.22	908.58				
909.03	5+25 (A)	- 0.11	908.92				
909.22	5+00 (A)	+ 0.06	909.28				
909.35	5+75 (A)	+ 0.27	909.62				
909.44	6+00 (A)	+ 0.52	909.96				
909.46	6+25 (A)	+ 0.83	910.31				
909.46	6+50 (A)	+ 1.17	910.65				
909.41	6+75 (A)	+ 1.33	910.74				
909.41	S.C. 6+75.72 (A)	+ 1.33	910.74				

PLAN & PROFILE STA. 0+00 TO STA. 9+50 RAMP "A" PROP. U.S.R. 33 & EXIST. U.S.R. 25 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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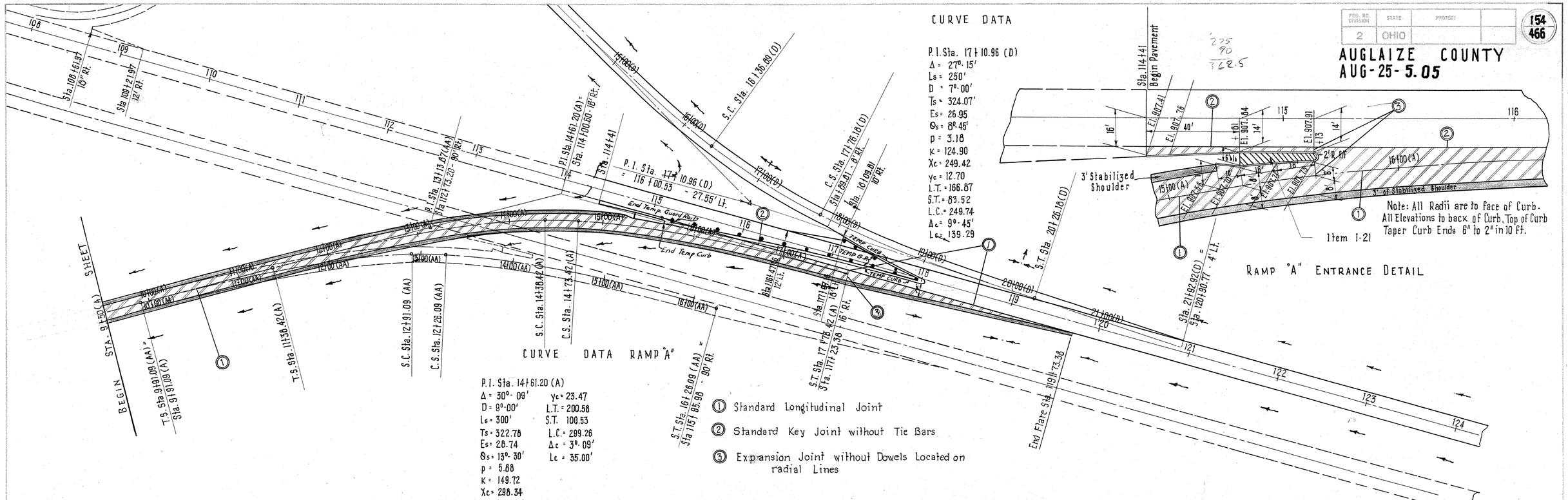
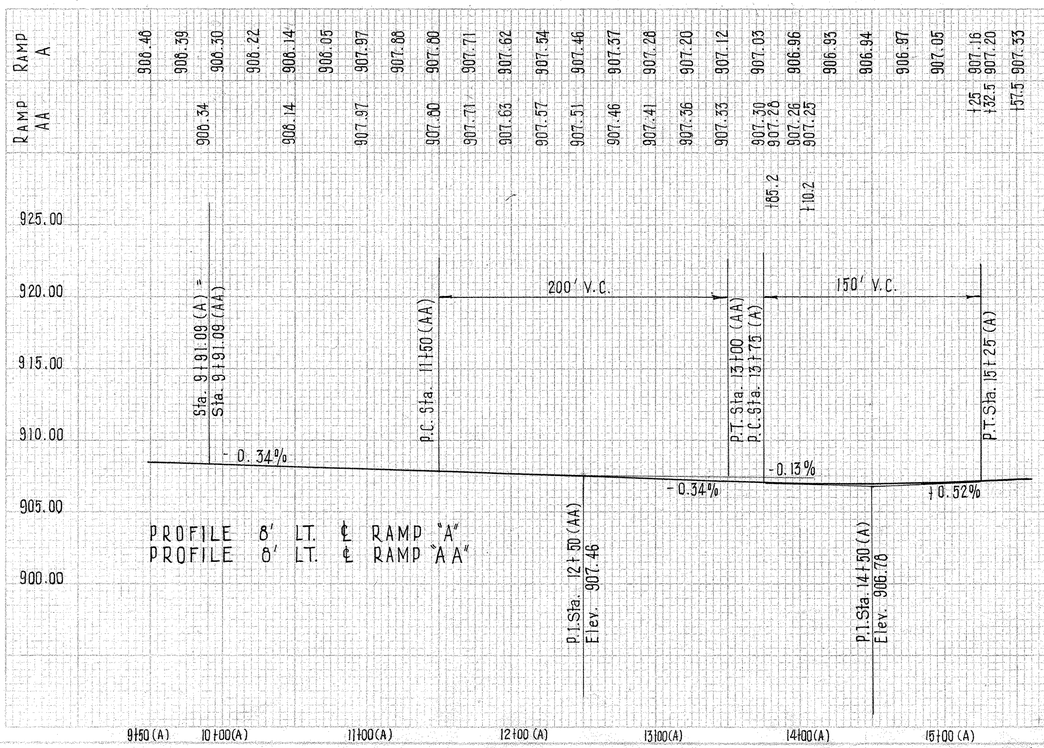
AUGLAIZE COUNTY
AUG-25-5.05





ITEM E-1	Compacted Subgrade	3542 Sq. Yds.
ITEM T-71	9" Reinforced Portland Cement Concrete Pavement	3542 Sq. Yds.
ITEM 1-18	Stabilized Crushed Aggregate Shoulders and Approaches	205 Cu. Yds.
ITEM 1-22	Subbase	1061 Cu. Yds.
ITEM 1-21	Conc. Median Pavement as per plan	16 Sq. Yds.
ITEM 1-12	Standard Curb, Type 2-A	726 Lin. Ft.

SUPERELEVATION TABLE RAMP "A" PROP U.S.R. 33 ℄ EXIST. U.S.R. 25 INTERCHANGE

8' Lt.	Station	Superelevation	8' Rt.	8' Lt.	Station	Superelevation	8' Rt.
	℄						
906.46	9+50 (A)	- 0.25	906.23	Meet Prop.	16+00 (A)		906.60
906.39	9+75 (A)	↓	906.14	Pav't Edge	16+25 (A)		906.70
906.30	10+00 (A)		906.05	Prop. U.S.R. 33	16+50 (A)		906.80
906.22	10+25 (A)		907.97		16+75 (A)		907.10
906.14	10+50 (A)		907.89		17+00 (A)		907.30
906.05	10+75 (A)		907.80		17+25 (A)		907.49
907.97	11+00 (A)		907.72		17+50 (A)		907.60
907.88	11+25 (A)		907.63		S.T. 17+73.42 (A)		907.67
907.85	TS 11+38.42 (A)	-0.25	907.60				
907.80	11+50	-0.26	907.54				
907.71	11+75	-0.28	907.43				
907.62	12+00	-0.37	907.25				
907.54	12+25 (A)	-0.49	907.05				
907.46	12+50 (A)	-0.61	906.85				
907.37	12+75 (A)	-0.73	906.64				
907.28	13+00 (A)	-0.85	906.43				
907.20	13+25 (A)	-0.97	906.23				
907.12	13+50 (A)	-1.10	906.02				
907.03	13+75 (A)	-1.20	905.83				
906.96	14+00 (A)	-1.26	905.70				
906.93	14+25 (A)	-1.31	905.62				
906.94	S.C. 14+38.42 (A)	-1.33	905.61				
906.94	14+50 (A)	-1.33	905.61				
906.97	C.S. 14+73.42 (A)	-1.33	905.64				
906.97	14+75 (A)	-1.33	905.64				
907.05	15+00 (A)	-1.32	905.73				
907.16	15+25 (A)	-1.27	905.89				
See Detail	15+50 (A)		906.09				
Meet Prop. U.S.R. 33	15+75 (A)		906.30				
Pav't Edge							

PLAN ℄ PROFILE STA. 9+50 TO STA. 17+73.42 RAMP "A" PROP. U.S.R. 33 ℄ EXIST. U.S.R. 25 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
AUG-25~5.05

End Area Volume			
Cut	Fill	Cut	Fill
118	28		
		396	93
96	22		
		276	94
53	29		
		87	48
45	25		
		108	19
97	0		

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50

24 — 906.52 — 906.07 — 4

37 — 81

901.7 — 3+00 (A) 904.7 — 900.2

18 — 905.06 — 904.81 — 4

28 — 68

901.0 — 2+00 (A) 903.4 — 899.9

25 — 903.52 — 903.57 — 4

16 — 37

900.4 — 1+00 (A) 902.2 — 899.6

21 — 903.36 — 3

300.1 — 12 — 899.5 — 33

F.L. Elev 900.1 — Prop. 24"X60' S-27 Paved Bituminous Coated Corrugated Metal Pipe @ 1.0% — F.L. Elev 899.5

28'-0" — 32'-0" — 60'-0"

0+52 (A) 901.8

97

Included in Exist U.S.R. 25 Quantities

Included in Exist U.S.R. 25 Quantities

903.80 0+11 (A) Ahead Only 903.6

80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

~ CULVERT DATA ~

TYPE: S-27 Paved Bituminous Coated Corrugated Metal Pipe P.C. 3 & 4
SIZE: 24"X60'
WORK REQUIRED: Construct 24"X60' Paved Bituminous Coated Corrugated Metal Pipe Culvert At Right Angles To Sta. 0+52(A) With Standard Concrete End Walls 28' Lt & 32' Rt As Shown.

~ ESTIMATED QUANTITIES ~

ITEM E-2	Excavation For Structures	16 Cu.Yds	
ITEM S-1	Concrete For Structures Class "E"	0.82 Cu.Yds	
ITEM S-27	Paved Bituminous Coated Corrugated Metal Pipe For Roadway Culverts 24" M-6.1(d) 60 Lin.Ft.		87 48

X-SECTIONS 0+12 to 3+00 RAMP "A" EXIST. U.S.R. 25 & Prop U.S.R. 33 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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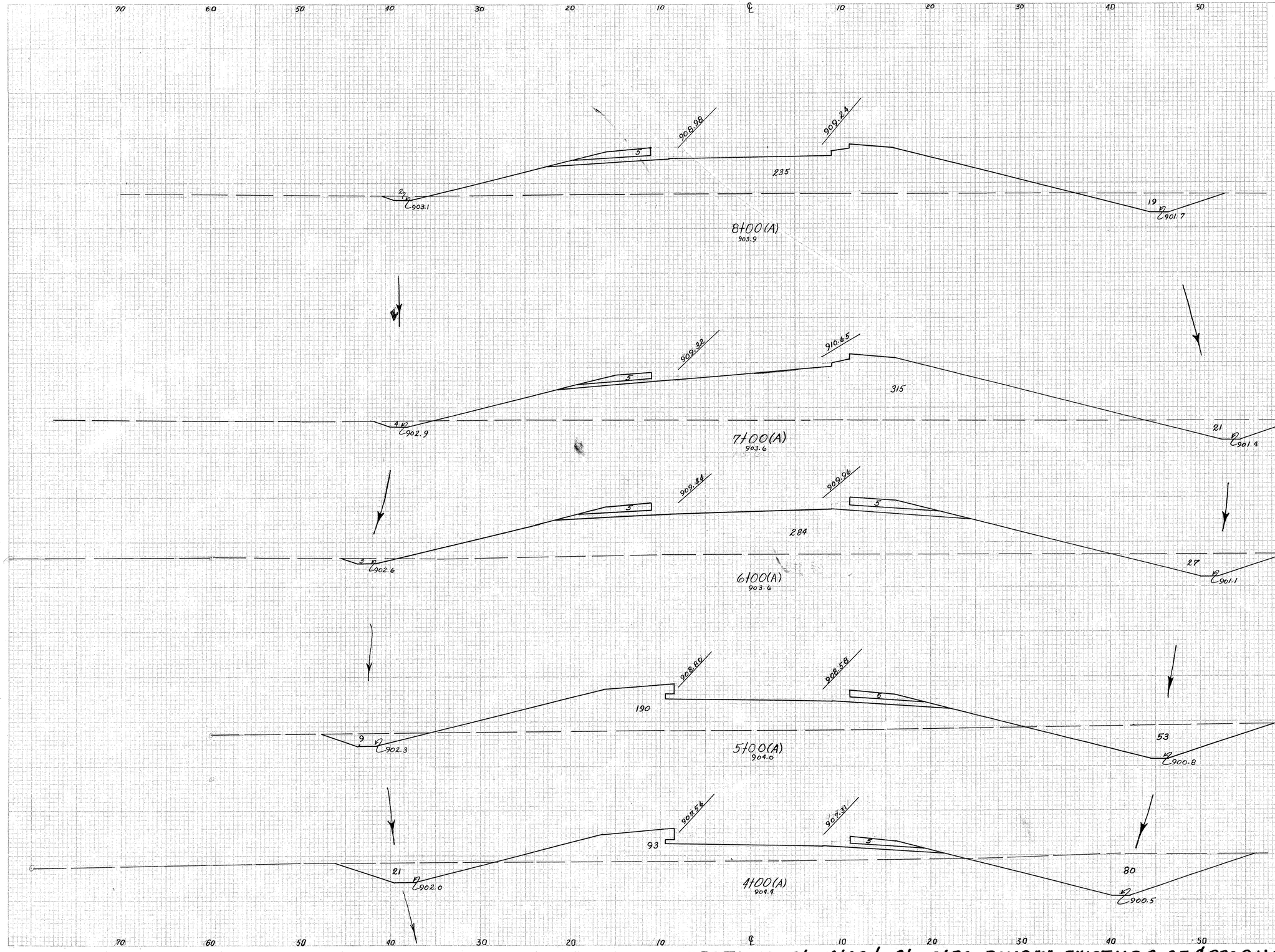
466

AUGLAIZE COUNTY
AUG-25~5.05

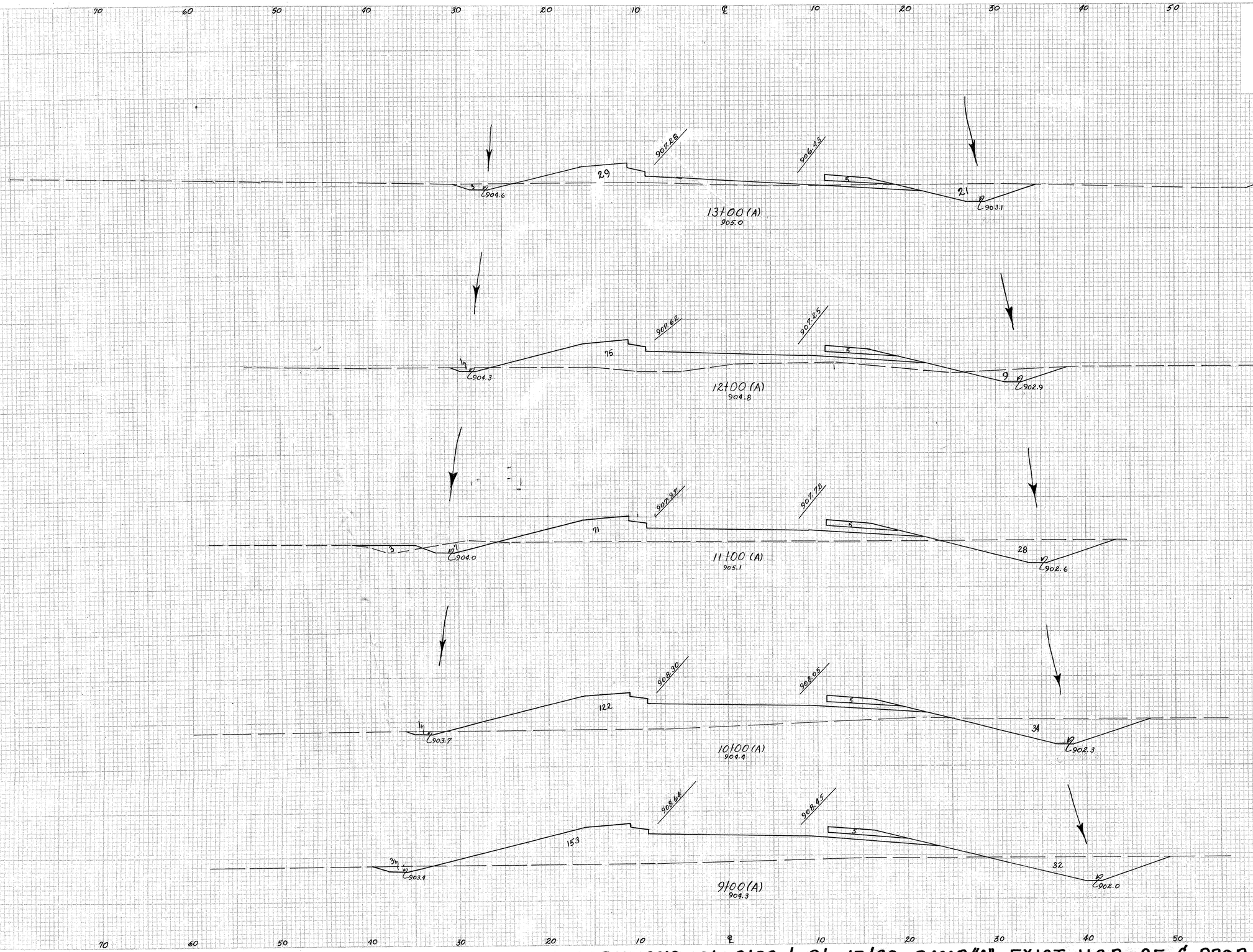


Sta	End Area Cut	End Area Fill	Volume Cut	Volume Fill
21	240			
			85	1039
25	320			
			102	1137
30	294			
			170	906
62	195			
			302	543
101	98			
			406	233
Sta 3+00	118	28		

X-SECTION Sta 4+00 to Sta 8+00 RAMP "A" EXIST U.S.R. 25 & PROP U.S.R. 33 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT		157 466
2	OHIO			

AUGLAIZE COUNTY
AUG-25-5.05



	End Area Cut	End Area Fill	Volume Cut	Volume Fill
	24	34		
			63	211
	10	80		
			83	294
	35	79		
			130	381
	35	127		
			130	528
	35	158		
			104	737
Sta 8+00	21	240		

	Cu Yds	Cu Yds	Cu Yds
Excavation	2780		
Embankment	6451		
Embank. 1.15 %	1919		

X-SECTIONS Sta 9+00 to Sta 13+00 RAMP "A" EXIST U.S.R. 25 & PROP U.S.R 33 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT		158 466
2	OHIO			

AUGLAIZE COUNTY
AUG~25~5.05

End Area		Volume	
Cut	Fill	Cut	Fill
	29	6	
		63	26
	39	22	
	57	34	
	34	21	
	87	39	
	47	15	
	131	91	
Sta 13+00	24	34	

Included in Prop U.S.R-33 Quantities

907.29 906.09 1½ 5 29 ℄ 904.0

15+50 (A) Back Only ~ Included in Prop. U.S.R 33 Ahead
905.6

Included in Prop U.S.R. 33 Quantities

907.05 905.73 17 5 39 ℄ 903.5

15+00 (A)
905.5

906.95 905.62 1½ 16 5 33 ℄ 905.0 ℄ 903.4

14+58 (A)
905.4

906.96 905.70 1 10 5 43 ℄ 904.9 ℄ 903.3

14+00 (A)
905.7

X-SECTIONS Sta 14+00 to Sta 15+50 RAMP "A" EXIST U.S.R. 25 & PROP 33 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY
AUG-25-5.05

① Standard Longitudinal Joint

② Standard Key Joint without Tie Bars

③ Expansion Joint without Dowels Located on radial lines

Sta. 0+00 (D) = Sta. 271+89.13 Exist. U.S.R. 25

Sta. 272+32.63 - 52' Rt. =
Sta 0+47.88 (D) = 48' Lt.

P.C. 273

95°-00'

Sta. 272+57.63
End Feather

Sta. 272+32.63
Begin Feather

272

40' R.

271

Sta. 271+59.15
End Feather

Sta. 0+00 (C)
Sta. 271+70.06 Exist U.S.R. 25

60' R.

84°-57'

Sta. 271+34.15
Begin Feather

Sta. 0+53.24 (D) - 56' Rt.
Sta. 271+26.57 - 48' Rt.

1-D See Detail Sheet № 161

270

Sta. 100+00 Prop. U.S.R. 33
Sta. 266+36.71 - Exist U.S.R. 25

Sta. 101+00 Begin Flare

Sta. 0+50 (D) - Prop.
Twin 15" S-27 Pipe

269

85°-00'

Sta. 103+50 End Flare

Sta. 8+81 (D)
8' Rt.

Sta. 10+71.93 (D) =
Sta. 110+40.30 - 351 Lt.

Sta. 12+00 (D) - Prop.
21" S-27 Pipe

2-D See Detail Sheet № 163

T.S. Sta. 8+31.63 (D)
P.C. Sta. 8+29.92

S.C. Sta. 10+31.63 (D)

C.S. Sta. 11+04.36 (D)

S.T. Sta. 13+04.36 (D)

P.T. Sta. 13+26.29 (C)
Sta 108+00 - 16' Lt.

Sta. 12+66.85 (C)
8' Lt.

END Sta. 13+50 SHEET

CURVE DATA RAMP "D"

P. I. Sta 10+71.93 (D)
Δ = 30°-00'
D = 11°-00'
Ls = 200'
Ts = 240.30
E = 21.7
Θs = 11°-00'
p = 3.20
k = 99.88
Xc = 199.26
yc = 12.77

L.T. = 133.59
S.T. = 66.90
L.C. = 199.67
Δc = 8°-00'
Rc = 72.73

100 101 102 103 104 105 106 107 108 109 110 111 112

	0+00 (D)	1+00 (D)	2+00 (D)	3+00 (D)	4+00 (D)	5+00 (D)	6+00 (D)	7+00 (D)	8+00 (D)	9+00 (D)	10+00 (D)	11+00 (D)	12+00 (D)	13+00 (D)	+50
RAMP "D"	904.63	904.24	903.95	903.89	903.95	904.00	904.06	904.11	904.16	904.22	904.27	904.33	904.38	904.45	904.49
RAMP "C"	904.63	904.24	903.95	903.89	903.95		904.06		904.16		904.27		904.38		904.49

	9+00 (D)	10+00 (D)	11+00 (D)	12+00 (D)	13+00 (D)	+50
RAMP "D"	904.54	904.60	904.65	904.70	904.76	904.81
RAMP "C"	904.54	904.60		904.70		904.81

	0+00 (D)	1+00 (D)	2+00 (D)	3+00 (D)	4+00 (D)	5+00 (D)	6+00 (D)	7+00 (D)	8+00 (D)	9+00 (D)	10+00 (D)	11+00 (D)	12+00 (D)	13+00 (D)	+50
RAMP "D"	904.87	904.92	904.97	905.03	905.08	905.14	905.19	905.24	905.30	905.35	905.41	905.46	905.51	905.57	905.62
RAMP "C"	904.87	904.92		905.03		905.14		905.24		905.35		905.46		905.57	

	9+00 (D)	10+00 (D)	11+00 (D)	12+00 (D)	13+00 (D)	+50
RAMP "D"	905.68	905.73	905.78	905.84	905.89	905.95
RAMP "C"	905.68	906.15	906.53	906.99	907.55	908.19

	10+00 (D)	11+00 (D)	12+00 (D)	13+00 (D)	+50
RAMP "D"	906.00	906.05	906.11	906.16	906.22
RAMP "C"	908.93	909.77	910.69	911.66	912.63

	11+00 (D)	12+00 (D)	13+00 (D)	+50
RAMP "D"	906.27	906.32	906.38	906.43
RAMP "C"	913.59	914.52	915.42	916.30

	12+00 (D)	13+00 (D)	+50
RAMP "D"	906.49	906.54	906.59
RAMP "C"	917.16	917.66	

PROFILE 8' LT. ℄ RAMP "C"
(Gutter Line)

P.C. Sta. 0+25 (D)
P.I. Sta. 0+50 (D)
Elev. 903.84
P.T. Sta. 0+75 (D)
50' V.C.
-1.58%
+0.216%
Sta. 8+31.63 (D) =
Sta. 8+29.92 (C)
P.C. Sta. 8+50 (C)
250' V.C.
P.T. Sta. 11+00 (C)
P.I. Sta. 12+00 (C)
Elev. 914.57
+3.45%
P.C. Sta. 11+50 (C)
100' V.C.
P.T. Sta. 12+50 (C)
+0.216%
+3.66%
P.I. Sta. 9+75 (C)
Elev. 905.64

PROFILE 8' Rt. ℄ RAMP "D"
(Gutter Line)

Note: All radii are to face of Curb.
All Elevations to back of Curb, Top of Curb
Taper Curb Ends 6" to 2" in 10 Ft.

℄ Ex. U.S.R. 25

Sta. 272+32.63 - 52' Rt. =
Sta. 0+47.88 (D) 48' Lt.

72°-00'-42"
40' R.

El. 904.31
El. 904.50
El. 904.55
El. 904.46
El. 904.32
El. 903.85

123.74
End 6" Curb

Resurface with 1½" T-55 Asphaltic Conc. Surface Course on 1½" B-35 Asphaltic Concrete Leveling Course

161.42
END CURB

℄ RAMP "D"

El. 904.53
El. 904.64
El. 904.43
El. 904.48
El. 904.44

51°-56'
48' R.

Sta. 0+53.24 (D) 56' Rt.
Sta. 271+26.57 40' Rt.

DETAIL INTERSECTION RAMP "D"
℄ EXISTING U.S.R. 25
Scale: 1"=20'

PLAN & PROFILE RAMP "D" STA. 0+00 TO STA. 13+50 PROP. U.S.R 33 & EXIST. U.S.R. 25 INTERCHANGE

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

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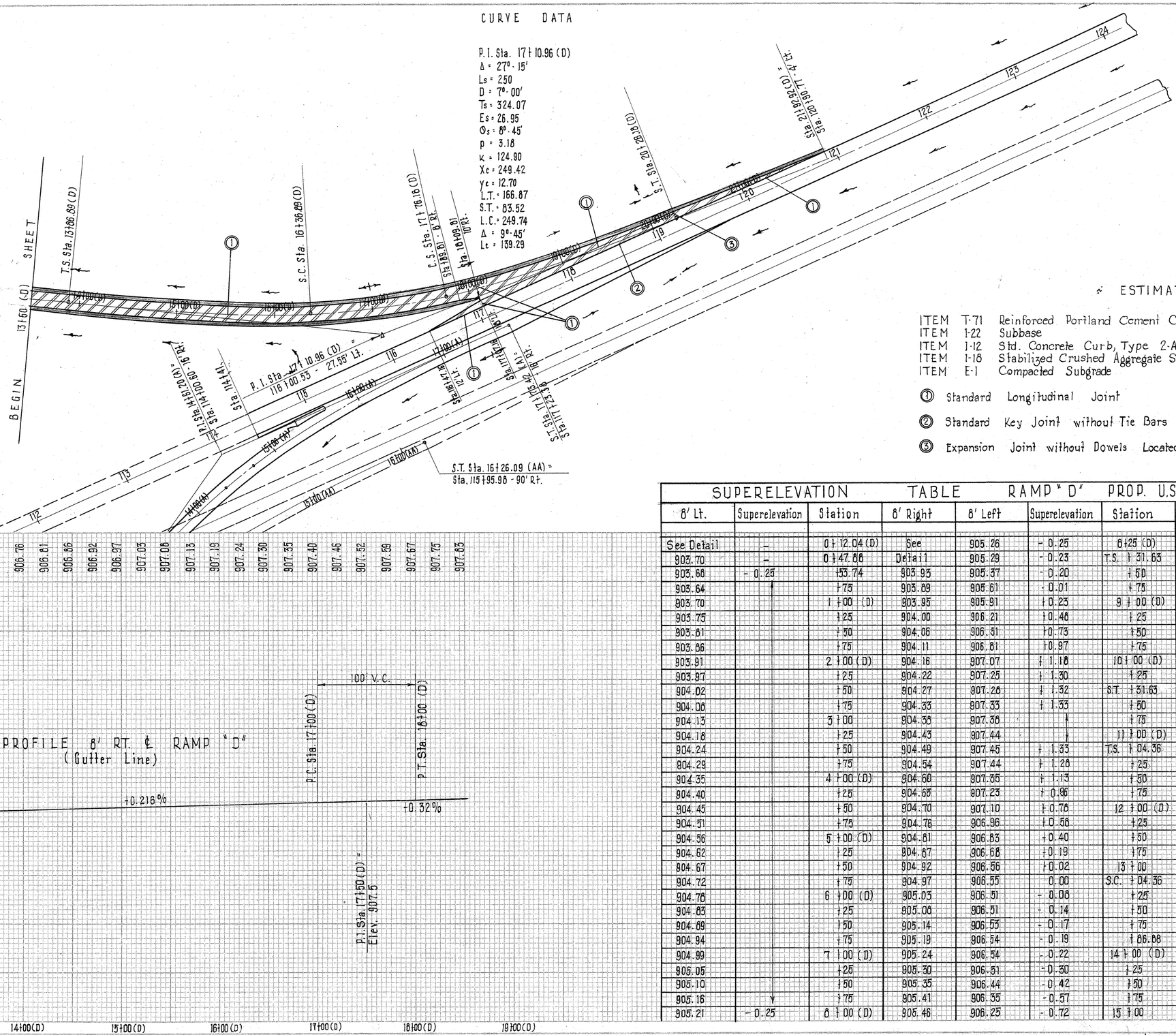
466

AUGLAIZE COUNTY
AUG - 25 - 5.05

CURVE DATA

P.I. Sta. 17+10.96 (D)
Δ = 27°-15'
Ls = 250
D = 7°-00'
Ts = 324.07
Es = 26.95
Θs = 8°-45'
p = 3.18
k = 124.90
Xc = 249.42
Yc = 12.70
L.T. = 166.87
S.T. = 83.52
L.C. = 249.74
Δ = 9°-45'
Lc = 139.29



ESTIMATED QUANTITIES

ITEM	T-71	Reinforced Portland Cement Concrete Pav't	3791	Sq. Yds.
ITEM	1-22	Subbase	1230	Cu. Yds.
ITEM	1-12	Std. Concrete Curb, Type 2-A	921	Lin. Ft.
ITEM	1-18	Stabilized Crushed Aggregate Shoulders & Approaches	214	Cu. Yds.
ITEM	E-1	Compacted Subgrade	3791	Sq. Yds.

① Standard Longitudinal Joint

② Standard Key Joint without Tie Bars

③ Expansion Joint without Dowels Located on radial lines.

SUPERELEVATION TABLE RAMP "D" PROP. U.S.R. 33 & EXIST U.S.R. 25 INTERCHANGE

8' Lt.	Superelevation	Station	8' Right	8' Left	Superelevation	Station	8' Right	8' Left.	Superelevation	Station	8' Right
See Detail	–	0+12.04 (D)	See	905.26	- 0.25	6+25 (D)	905.51	906.15	- 0.86	15+25 (D)	907.03
903.70	–	0+47.86	Detail	905.29	- 0.23	T.S. +31.63	905.52	906.05	- 1.03	+50	907.08
903.60	- 0.25	+53.74	905.95	905.37	- 0.20	+50	905.57	905.96	- 1.17	+75	907.13
903.64	↑	+75	903.89	905.61	- 0.01	+75	905.62	905.92	- 1.27	16+00 (D)	907.19
903.70		1+00 (D)	903.95	905.91	+0.23	9+00 (D)	905.66	905.93	- 1.31	+25	907.24
903.75		+25	904.00	906.21	+0.48	+25	905.73	905.94	- 1.33	S.C. +36.68	907.27
903.81		+50	904.06	906.51	+0.73	+50	905.78	905.97	↓	+50	907.30
903.86		+75	904.11	906.81	+0.97	+75	905.84	906.02		+75	907.35
903.91		2+00 (D)	904.16	907.07	+1.18	10+00 (D)	905.89	906.07		17+00 (D)	907.40
903.97		+25	904.22	907.25	+1.30	+25	905.95	906.13		+25	907.46
904.02		+50	904.27	907.26	+1.32	S.T. +31.63	905.96	906.19		+50	907.52
904.08		+75	904.33	907.33	+1.33	+50	906.00	906.26	↓	+75	907.59
904.13		3+00	904.38	907.38	↓	+75	906.05	906.27	- 1.33	C.S. 176.18	907.60
904.18		+25	904.43	907.44		11+00 (D)	906.11	906.32	- 1.32	+89.61	907.64
904.24		+50	904.49	907.45	+1.33	T.S. +04.36	906.12	906.35	- 1.32	18+00 (D)	907.67
904.29		+75	904.54	907.44	+1.28	+25	906.16	906.40	- 1.30	+09.61	907.70
904.35		4+00 (D)	904.60	907.35	+1.13	+50	906.22	906.46	↓	+25	↓
904.40		+25	904.65	907.23	+0.96	+75	906.27	906.67		+50	Edge of
904.45		+50	904.70	907.10	+0.78	12+00 (D)	906.32	906.86	Slope from	+75	Pavement
904.51		+75	904.76	906.96	+0.56	+25	906.38	907.12	Edge of	19+00 (D)	Prop U.S.R 33
904.56		5+00 (D)	904.81	906.83	+0.40	+50	906.43	901.36	Pav't.	+25	↓
904.62		+25	904.87	906.68	+0.19	+75	906.49	907.59	Prop U.S.R. 33	+50	
904.67		+50	904.92	906.56	+0.02	13+00	906.54	907.80	↓	+75	
904.72		+75	904.97	906.55	0.00	S.C. +04.36	906.55	907.98		20+00 (D)	
904.76		6+00 (D)	905.03	906.51	- 0.08	+25	906.59	908.13		+25	
904.83		+25	905.08	906.51	- 0.14	+50	906.65	908.13	↓	S.T. +26.18	
904.89		+50	905.14	906.53	- 0.17	+75	906.70	908.20	↓	+50	
904.94		+75	905.19	906.54	- 0.19	+86.88	906.73	908.27	Slope 3/16"	+75 (D)	
904.99		7+00 (D)	905.24	906.54	- 0.22	14+00 (D)	906.76	908.33	per ft. from	21+00 (D)	
905.05		+25	905.30	906.51	- 0.30	+25	906.81	908.39	℄ Prop U.S.R. 33	+25	
905.10		+50	905.35	906.44	- 0.42	+50	906.86	908.46	↓	+50	
905.16	↓	+75	905.41	906.35	- 0.57	+75	906.92	908.53	↓	+75	↓
905.21	- 0.25	8+00 (D)	905.46	906.25	- 0.72	15+00	906.97	908.59	↓	+92.92	

PLAN & PROFILE RAMP "D" STA. 13+50 TO STA. 21+92.92 PROP. U.S.R. 33 & EXIST. U.S.R. 25 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
AUG-25-5.05

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	27	16		
				152 48
	55	10		
				126 81
	13	34		
				18 92
	6	65		
				3 94
	0	138		
				22 36
	86	0		

3+00 (D)
903.19

2+00 (D)
903.29

1+00 (D)
902.19

0+50 (D)
901.29

0+25 (D)
901.29

0+11 (D) Ahead Only
904.13

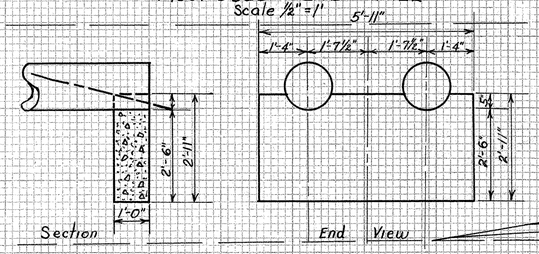
~ CULVERT DATA ~

TYPE: S-27 Twin Paved Bituminous Coated Corrugated Metal Pipe P.C.3+4.
SIZE : 15"X52' (TWIN)
WORK REQUIRED: Construct Twin 15"X52' Paved Bituminous Coated Corrugated Metal Pipe Culvert At Right Angle To Sta. 0+50(D) With Concrete End Walls 25' Lt. & 27' Rt As Shown

~ ESTIMATED QUANTITIES ~

ITEM E-2	Excavation For Structures	10 Cu.Yds
ITEM S-1	Concrete For Structures Class "E"	1.28 Cu.Yds
ITEM S-27	Paved Bituminous Coated Corrugated Metal Pipe Sec M-6.4(d) 15"	104 Lin.Ft.

PROPOSED END WALL
Scale ½"=1'



Prop Twin 15"X52' Paved Bituminous Coated Corrugated Metal Pipes @ 96%
F.L. Elev. 900.6
F.L. Elev. 901.1
25'-0"
27'-0"
52'-0"

X-SECTIONS STa. 0+11 to Sta. 3+00 RAMP D EXIST U.S.R. 25 & PROP U.S.R. 33 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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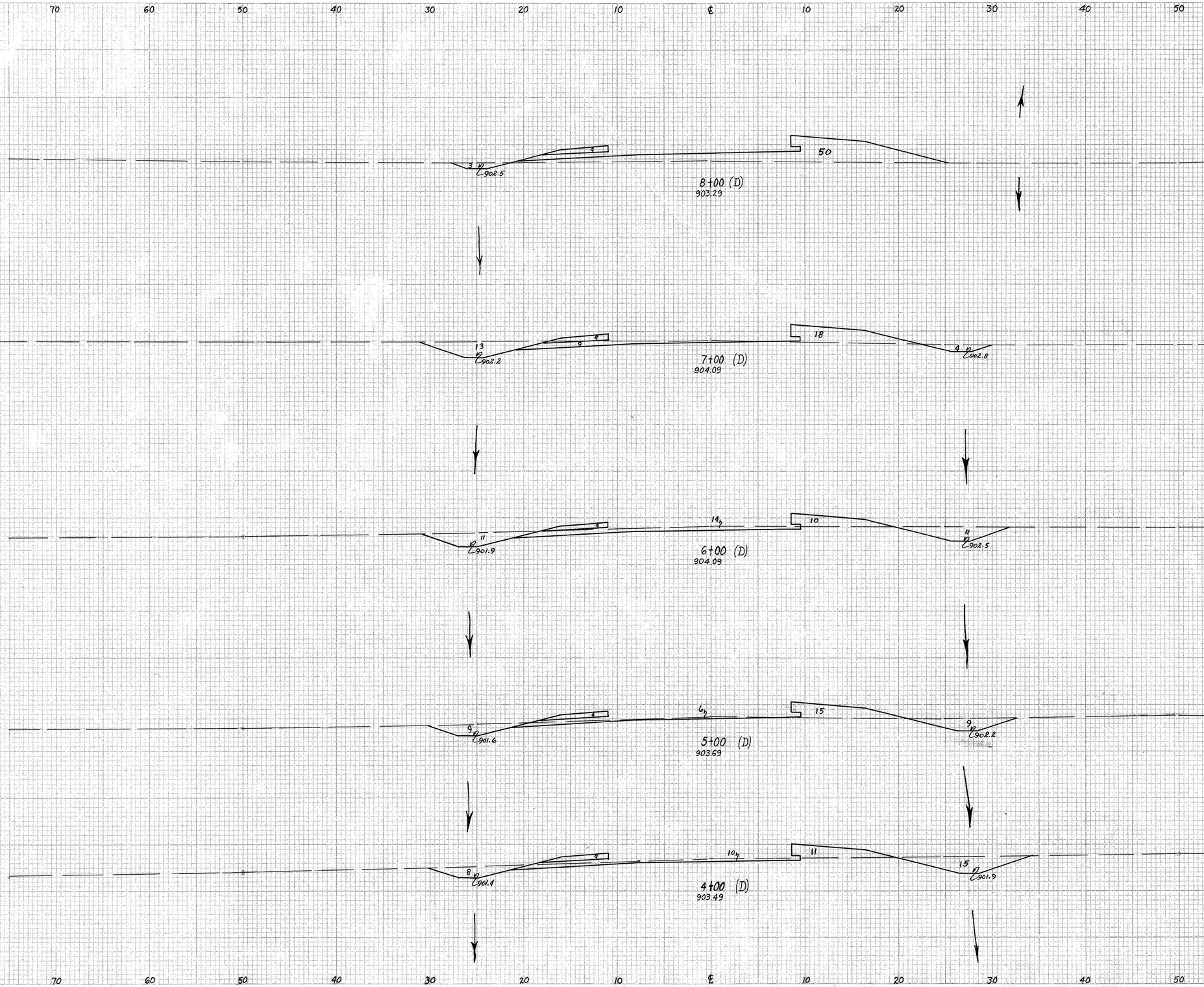
AUGLAIZE COUNTY
AUG-25-5.05



	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	3	54		
				54 141
	26	22		
				115 67
	36	14		
				111 61
	24	19		
				106 63
	33	15		
				111 57
Sta 3+00	27	16		

	Cu. Yds.	Cu. Yds.	Cu. Yds.
Excavation	1156	5256	6044
Embankment			
Embank. +15%			

X-SECTIONS Sta. 4+00 to Sta. 8+00 RAMP "D" EXIST U.S.R. 25 & PROP. U.S.R. 33 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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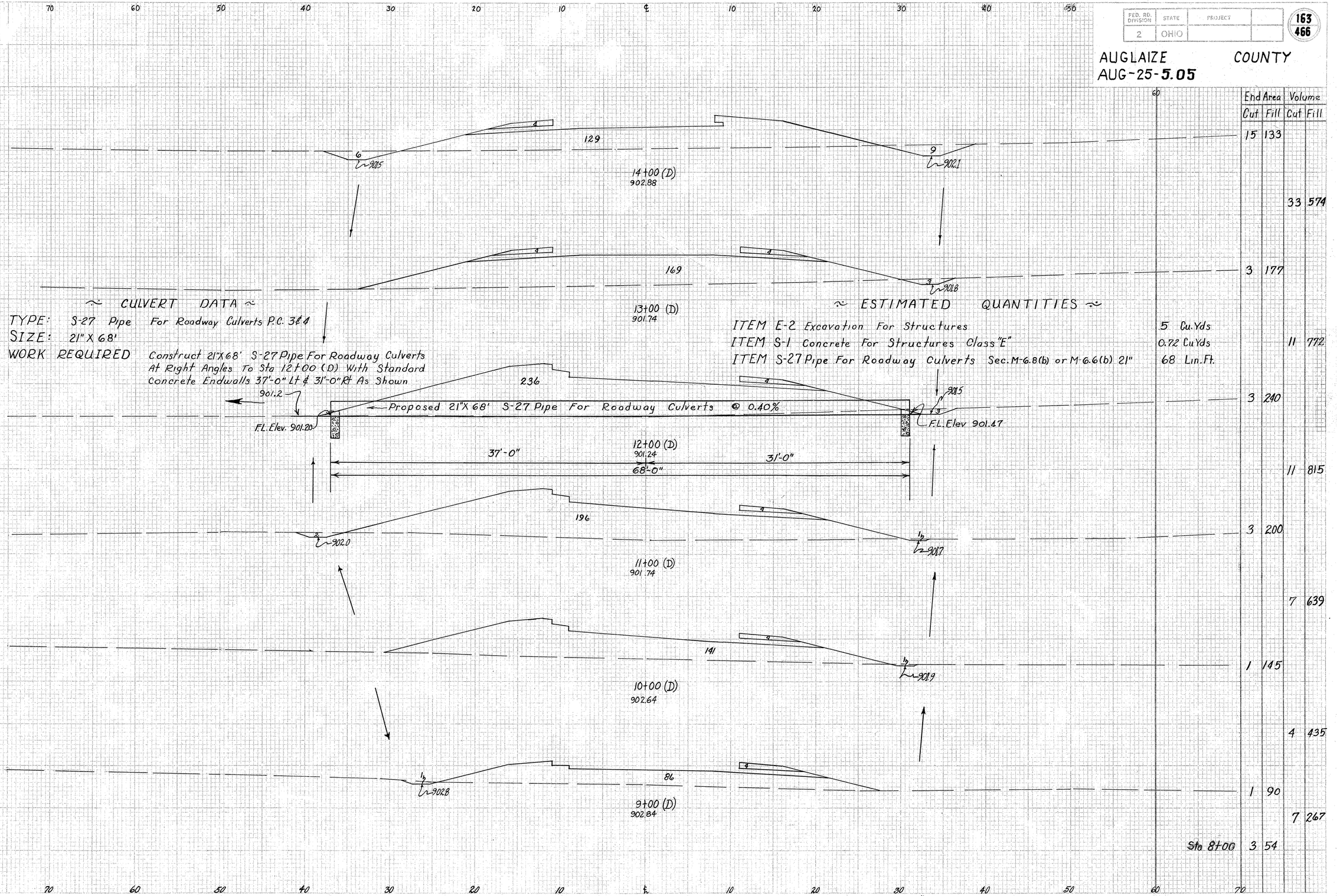
AUGLAIZE COUNTY
AUG-25-**5.05**

≈ CULVERT DATA ≈

TYPE: S-27 Pipe For Roadway Culverts P.C. 3&4
SIZE: 21" X 68'
WORK REQUIRED Construct 21"X68' S-27 Pipe For Roadway Culverts At Right Angles To Sta 12+00 (D) With Standard Concrete Endwalls 37'-0" Lt & 31'-0" Rt As Shown

≈ ESTIMATED QUANTITIES ≈

ITEM E-2 Excavation For Structures	5	Cu.Yds
ITEM S-1 Concrete For Structures Class "E"	0.72	CuYds
ITEM S-27 Pipe For Roadway Culverts Sec. M-6.8(b) or M-6.6(b) 21"	68	Lin.Ft.



X-SECTIONS STA. 9+00 to STA. 14+00 RAMP "D" EXIST. U.S.R. 25 & PROP. U.S.R. 33 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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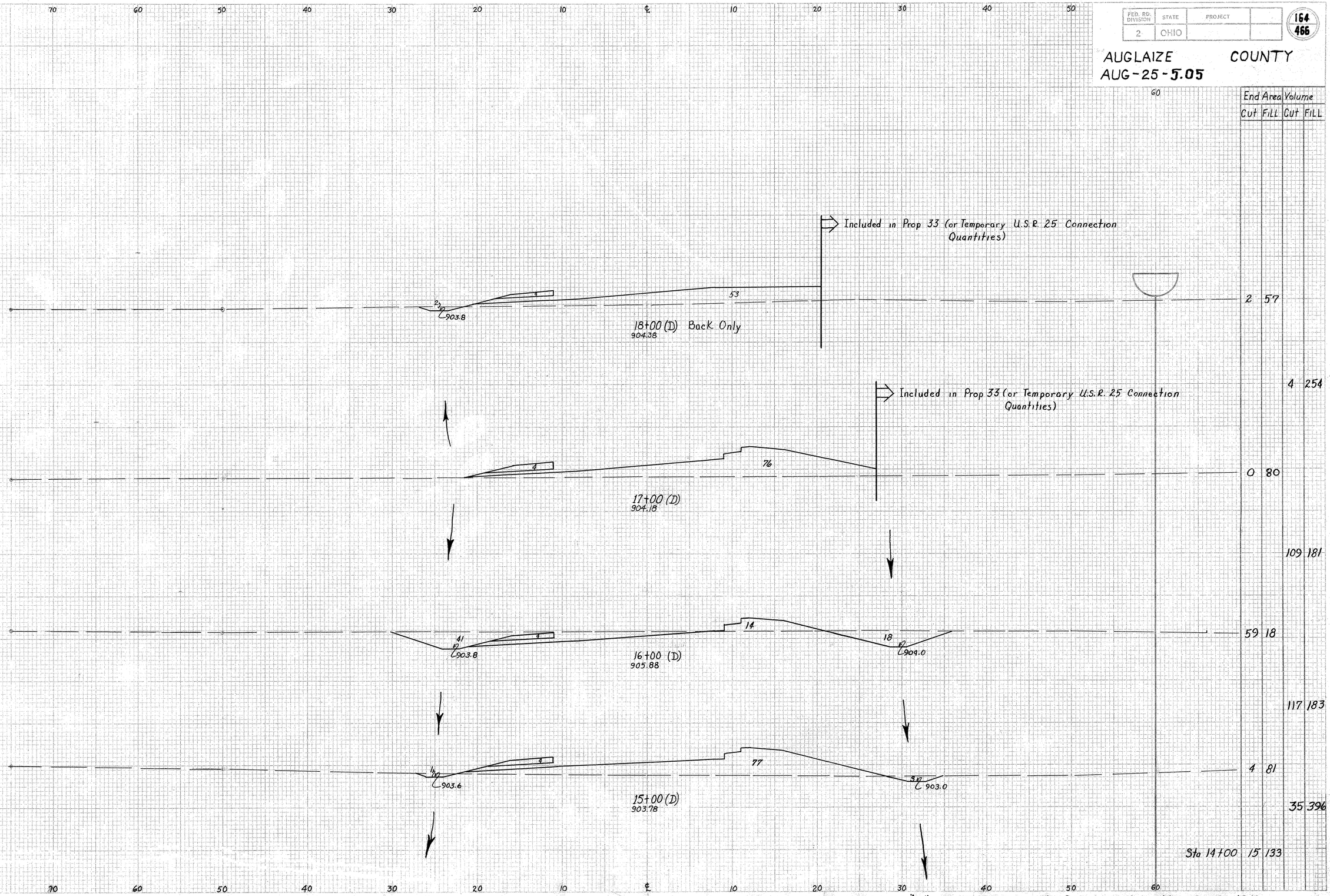
AUGLAIZE COUNTY
AUG-25-5.05

End Area Volume			
Cut	Fill	Cut	Fill
		2	57
		4	254
		0	80
		109	181
		59	18
		117	183
		4	81
		35	396
		Sta 14+00	15 133



X-SECTIONS Sta 15+00 to Sta. 18+00 RAMP "D" EXIST U.S.R. 25 & PROP. U.S.R. 33 INTERCHANGE

TEMPORARY U.S.R. 25 CONNECTION TABLES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
AUG-25-5.05

DRAINAGE TABLE

Plan & Profile Sheet No.	Reference No.	Detail Sheet No.	STATION From	STATION To	Side	E-2 Excavation for Structures Cu.Yd.	E-3 Channel Excavation Cu.Yd.	E-12 Pipe Removed 15" & Under Lin.Ft.	E-12 Pipe Removed Over 15" Lin.Ft.	J-1 Pipe for Drive-ways Lin.Ft. 24"	J-2 Storm Sewers Under Pavt Type "A" Lin.Ft. 12"	J-2 Storm Sewers Under Pavt Type "A" Lin.Ft. 18"	J-2 Storm Sewers Under Pavt Type "A" Lin.Ft. 12	J-3 Pipe for Roadway Drainage Lin.Ft. 8"	J-3 Pipe for Roadway Drainage Lin.Ft. 12"	J-18 Standard No. 1-2A Catch Basin Each	S-1 Concrete for Structures Class "E" Cu.Yd.	S-27 Pipe for Roadway Culverts Sec. M-6.8 (b) or Sec. M-6.6 (b) Lin.Ft. 18"	S-27 24"	S-27 30"	Special Abandon Wells Each	Remarks
NON-FEDERAL PARTICIPATION																						
169	1-D	177	119+00	Structure	℄	10											1.64			160		
170	1-D	192	0+62	Rd. Approach	Rt.	5				36							0.60	56				Sta. 121+00
170	2-D		123+36	135+00	Lt.								74	1163	8	2						
170	3-D		134+24	135+00	Lt.			66						76								
171	1-D		135+00	135+50	Lt.									49		1						
171	2-D		135+00	136+46	Lt.			214						150		1						
171	3-D	180	136+00	Structures	℄	44											1.02			100		
171	4-D		139+63±		Lt.																1	
Total Non-Federal Participation to U.S.25 Tables						59		280		36			74	1440	8	4	3.26	56	160	100	1	
FEDERAL PARTICIPATION																						
171	5-D		136+55±	Service Road	Rt.			28														
171	6-D		139+00	Service Road	Rt.							46										Structure
171	7-D		145+36	145+85	Rt.						48											
172	1-D	185	155+00	Structure	℄	12											1.02			60		
172	2-D		154+65(A)±		Lt.		4	30														
173	1-D	188	165+00(A)	Structure	℄	26											0.60	114				
Total Federal Participation to U.S. 25 Tables						38	4	58			48	46					1.62	114		60		
" " " To Earthwork Calculations							4															

EARTHWORK TABLE

Sheet No.	STATION From	STATION To	Excavation Cu.Yd.	Embankment Cu.Yd.	Embankment +15% Cu.Yd.	Roadside Improvement L-9 Seeding & Protection Sq.Yds.
Non-Federal Participation						
178	114+25	135+00	1919	8972	10,318	18,593
180	135+00	149+00	3674	9439	10,855	15,972
Total Non-Federal Part. to U.S. 25 Tables			5593			34,565
" " " To Temp. Conn. Cal.			5593	18,411	21,173	34,565
Federal Participation:						
183	Service Road		4621	1144	1,316	23,873
186	149+00	163+00(A)	1802	18,218	20,951	19,233
188	163+00(A)	167+07(A)	240	18,228	20,962	4,449
Total Federal Part. to Temp. Conn. Cal.			66 63	37,590	43,229	47,555
Total Federal Part. to U.S. 25 Tables			66 63			47,555

EARTHWORK CALCULATIONS

Non-Federal Participation

Embankment +15% = 21,173 Cu.Yd.

Excavation to reduce Borrow = 5,593 Cu.Yd.

1-4 Trench Excavation (1250 x 3.75 x 16/12÷27) = 231 Cu.Yd. } 5824 Cu.Yd.

Total = 15,349 Cu.Yd.

Total Borrow required for Prop. U.S.R. 25 Temp. Conn. forwarded to U.S.25 Cal = 15,349 Cu.Yd.

Federal Participating :

Embankment +15% = 43,229 Cu.Yd.

Excavation to reduce Borrow 6,663 Cu.Yd.

1-4 Trench Excavation (425 x 3.5 x 16/12÷27) = 73 Cu.Yd } 6,740 Cu.Yd.

E-3 Channel Excavation 4 Cu.Yd.

Total = 36,489 Cu.Yd.

Total Borrow required for Prop. U.S.R. 25 Temp. Conn. forwarded to U.S. 25 Cal. 36,489 Cu.Yd.

GUARD RAIL TABLE

Plan & Profile Sheet No.	Reference No.	STATION From	STATION To	Side	I-15 Guard Rail Steel Beam Type "Deep" Straight Lin.Ft.	Remarks
172	1-G	160+46(A)±	163+50(A)	Lt.	287.5	
172	2-G	159+52(A)±	163+60(A)	Rt.	412.5	
173	1-G	163+50(A)	168+05(A)±	Lt.	437.5	
173	2-G	163+50(A)	166+50(B)±	Rt.	312.5	
Total Federal Participation to U.S. 25 Tables					1450.0	

DRIVE AND APPROACH TABLE

Plan and Profile Sheet No.	Reference No.	Detail Sheet No.	STATION From	STATION To	Side	E-1 Compacted Subgrade Sq.Yd.	B-35 Asphaltic Concrete Leveling Course Cu.Yd.	B-35 Asphaltic Concrete Base Course Cu.Yd.	B-119 Crushed Aggregate Base Course Cu.Yd.	I-18 Stabilized Crushed Aggregate for Shoulders & Approaches Cu.Yd.	I-22 Subbase Cu.Yd.	T-30 Bituminous Prime Coat Gal.	T-35 Asphaltic Concrete Surface Course Cu.Yd.	Remarks
Non-Federal Participation :														
170	1-A	191	121+00	Approach	Rt.	230.4	12.8		33.3	112.5	27.5	83.8	8.0	
Total to Temp. Connection . Calculations.									33.3	112.5	27.5			
Total to Non-Federal Participation U.S.25 Tables						230.4	12.8		33.3	112.5	27.5	83.8	8.0	
Federal Participation :														
171	1-A		137+06.96	149+22.50	Rt.					345.6				Service Rd.
171	2-A		145+19		Rt.					18.4				Service Rd.
172	1-A	194	151+00	Approach	Rt.	233.3	13.0		33.7	142.0	27.9	85.0	8.1	
172	2-A		152+00	154+87	Rt.					80.7				Sevice Rd.
173	1-A	189	163+92.76	171+33.6	Rt.	571.3	39.2	144.2	154.3		162.8	243.4	39.8	Ram "B"
Total to Temp. Conn. Calculations						804.6			188.0	586.7	190.7			
Total to Federal Particapation U.S.25 Calculations							52.2	144.2	188.0			328.4	47.9	

I-4 UNDERDRAIN TABLE

Plan & Profile Sheet No.	Reference No.	Station From	Station To	Side	I-4 6" Pipe Underdrain Lin.Ft.	I-4 8" Outlet for Underdrain Lin.Ft.	I-5 Pipe Specials for I-4 Underdrains Each 6"x90°	Remarks
Non-Federal Participation :								
171	1-U	136+50	149+00	Rt.	1286	30	1	
To be Placed if & as directed by Engineer					300			
Total Non-Federal Part. to U.S. 25 Tables					1586	30	1	
federal Participation :								
171	1-U	149+00	150+00	Rt.	100			
172	1-U	150+00	153+26	Rt.	326			
Total to Federal Participation U.S.25 Tables					426			

TEMPORARY U.S.R. 25 CONNECTION TABLES

U.S.R. 25 TEMPORARY CONNECTION CALCULATIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
AUG-25-5.05

ITEM T-71 REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT

Non-Federal Participation:
From Typical Section №1 = 2209.00 Lin.Ft.
From Typical Section №2 = 1250.00 Lin.Ft.
Total = 3459.00 Lin.Ft.
3459 x 24' ÷ 9 = 9224.0 Sq.Yds.
Total to Non-Federal Participation U.S.25 Calculations 9224.0 Sq.Yd.

Federal Participation:
From Typical Section №2 = 425.00 Lin.Ft.
From Typical Section №3 = 1410.86 Lin.Ft.
Total = 1835.86 Lin.Ft.
1835.86 x 24' ÷ 9 = 4895.7 Sq.Yd.
From Typical Section №3- Detail
Estimated Quantity = 604.2 Sq.Yd.
Totals- 5499.9 Sq.Yd.
Total to Federal Participation U.S.25 Calculation 5499.9 Sq.Yd.

ITEM I-22 SUBBASE

Non-Federal Participation:
From Typical Section №1 = 2209.00 Lin.Ft.
2209.00 x 21.4 Sq.Ft. ÷27 = 1750.8 Cu.Yd.
From Typical Section №2 (Sta.136+50 to Sta.149+00) = 1250.00 Lin.Ft.
1250.00' x 26' x 6/12 ÷ 27 = 601.9 Cu.Yd.
Total = 2352.7 Cu.Yd.
Deductions:
Rt.Side-Sta.114+41 to Sta. 119+73.38 = 532.38 Lin.Ft.
Sta 120+48 to Sta. 121+52 = 104.00 Lin.Ft.
Total = 636.38 Lin.Ft.
636.38 x 1'x 3"/12 ÷ 27 = -5.9 Cu.Yd.
Left. Side-Sta 116+47.16 to 120+90.77 = 443.61 Lin.Ft.
443.61 x 8.4 Sq.Ft. ÷ 27= - 136.0 Cu.Yd.
Net Total 2208.8 Cu.Yd.
From Drive and Approach Table (Non-Federal) 27.5 Cu.Yd.
Total 2236.3 Cu.Yd.
Total to Non-Federal Participation U.S.25 Calculations 2236.3 Cu.Yd.

Federal Participation:
From Typical Section №2
Sta. 149+00 to Sta.153+25(A) = 425 Lin.Ft.
425' x 26' x 6/12 ÷ 27 = 204.6 Cu.Yd.
From Typical Section №3 = 1410.86 Lin.Ft.
1410.86 x 19.25 Sq.Ft. ÷ 27 = 1005.9 Cu.Yd.
(Sta. 160+46 to Sta.167+35.86) x 2'x 6/12 ÷ 27 = 25.5 Cu.Yd.
From Typical Section №3 Detail 273.0 Cu.Yd.
From Drive & Approach Table 190.7 Cu.Yd.
Total = 1699.7 Cu.Yd.
Deduction:
Rt. Side Sta.150+37.5 to 151+53.75 = 116.25 Lin.Ft.
163+92.76 ± to 166+05 = 212.24 Lin.Ft.
Total = 328.49 Lin.Ft.
328.49 x 1'x 6/12 ÷ 27 = 6.1 Cu.Yd.
Total = 1693.6 Cu.Yd.
Total to Federal Participation U.S. 25 Calculations 1693.6 Cu.Yd.

ITEM I-18 STABILIZED CRUSHED AGGREGATE FOR SHOULDERS & APPROACHES

Non- Federal Participation:
From Typical Section №1 = 2209.00 Lin.Ft.
2209.00' x 4'x 6/12 ÷ 27 = 163.6 Cu.Yd.
2209.00 x 4' x 7.5/12 ÷ 27 = 204.5 Cu.Yd.
From Typical Section №2 (Sta 136+50 to Sta.149+00) = 1250 Lin.Ft.
2500' x 4' x 7.5/12 ÷27= 231.5 Cu.Yd.
From Drive and Approach Table 112.50 Cu.Yd.
Total 712.1 Cu.Yd.
Deductions:
Rt. Sta. 114+41 to Sta 119+73.38 = 532.38 Lin.Ft.
Sta. 120+48 to Sta. 121+52 = 104.00 Lin.Ft.
Total = 636.38 Lin.Ft.
636.38 x 4' x 7.5/12 ÷ 27 = 56.9 Cu.Yd.
Lt. Sta. 116+47.16 to Sta.120+90.77 = 443.61 Lin.Ft.
443.61 x 4'x 6/12 ÷ 27 = 32.9 Cu.Yds.

ITEM I-18 (CONTINUED)

Net Total 620.3 Cu.Yd.
Total to Non-Federal Participation U.S.25 Calculations 620.3 Cu.Yd.

Federal Participations:
From Typical Section №2 (Sta 149+00 to Sta.153+25) = 425.00 Lin.Ft.
From Typical Section №3 = 1410.86 Lin.Ft.
Total = 1835.86 Lin.Ft.
(1835.86 x 4' x 7.5/12 ÷ 27) x 2 = 334.00 Cu.Yd.
From Typical Section №3 Detail
Sta 167+35.86(A) to Sta.170+25(A) = 289.12 Lin.Ft.
289.12 x 3'x 4.5/12 ÷ 27 = 12.0 Cu.Yd.
Sta.170+25 to Sta. 171+37.49 = 112.49 Lin.Ft.
112.49 x 12'+3'/2 x 4.5/12 ÷27 = 11.7 Cu.Yd.
Total = 357.7 Cu.Yd.
Deduction:
Rt.Side - Sta.150+37.5 to Sta.151+53.75 = 116.25 Lin.Ft.
Sta. 163+92.76 to Sta. 166+05 = 212.24 Lin.Ft.
Total = 328.49 Lin.Ft.
328.49 x 4' x 7.5/12 ÷ 27 = - 30.4 Cu.Yd.
From Drive and Approach Table 586.7 Cu.Yd.
Net Total = 914.0 Cu.Yd.
Total to Federal Participation U.S.25 Calculations 914.0 Cu.Yd.

ITEM T-31 BITUMINOUS SURFACE TREATMENT- BITUMINOUS MATERIAL

From Typical Section №3 = Detail
(170+25-167+35.86) x 3' ÷ 9 = 96.4 Sq.Yd.
(171+37.49 -170+25) x 12'+3'/2 ÷ 9 = 93.7 Sq.Yd.
Total = 190.1 Sq.Yd.
190.1 x 0.25 Gal/Sq.Yd. = 47.5 Gal.
Total to Federal Participation U.S.25 Calculations 47.5 Gal.

ITEM T-31 BITUMINOUS SURFACE TREATMENT- AGGREGATE

From Typical Section №3 = Detail
(170+25÷167+35.86) x 3' ÷ 9 = 96.4 Sq.Yd.
(171+37.49 - 170+25) x 12+3/2 ÷ 9 = 93.7 Sq.Yd.
Total = 190.1 Sq.Yd.
190.1 x 0.008 Cu.Yd/Sq.Yd. 1.5 Cu.Yd.
Total to Federal Participation U.S.25 Calculations 1.5 Cu.Yd.

ITEM B-33 BITUMINOUS MACADAM BASE COURSE

From Typical Section №3 - Detail
(170+25 - 167+35.86) x 3'÷ 9 = 96.4 Sq.Yd.
(171+37.49 - 170+25) x 12+3/2 ÷ 9 = 93.7 Sq.Yd.
Total 190.1 Sq.Yd.
Total to Federal Participation U.S.25 Calculations 190.1 Sq.Yds.

ITEM E-1 COMPACTED SUBGRADE

Non-Federal Participation
From Typical Section №1 = 2209 Lin.Ft.
From Typical Section №2 =
Sta.136+50 to Sta. 149+00 = 1250 Lin.Ft.
Total = 3459 Lin.Ft
3459' x 24'÷9 = 9224.0 Sq.Yds.
From Drive & Approach Table = 230.4 Sq.Yds.
Total 9454.4 Sq.Yds
Total to Non-Federal Participation U.S.25 Calculations 9454.4 Sq.Yds

Federal Participation
From Typical Section №2 =
(Sta.149+00 to Sta. 153+25 = 425.00 Lin.Ft.
From Typical Section №3 = 1410.86 Lin.Ft.
Total 1835.86 Lin.Ft.
1835.86 X 24÷9 = 4895.7 Sq.Yd.
From Typical Section №3 - Detail
Estimated Quantity 604.2 Sq.Yd.
From Drive & Approach Table 604.6 Sq.Yd.
Total 6304.5
Total to Federal Participation U.S.25 Calculations 6304.5 Sq.Yds.

ITEM E-9 REMOVAL OF TREES AND STUMPS

Non-Federal Participation:
Estimated 132 Trees and 8 (eight) Stumps to be removed and disposed of.
Total to Non-Federal Participation U.S.25 Calculations Lump

Federal Participations.
Estimated 5 (Five) Trees and 0 (№) Stumps to be removed and disposed of:
Total to Federal Particapation U.S. 25 Calculations Lump

ITEM E-11 WATER

Non-Federal Participation:
From Roadway Earthwork Tables: 18,411.0 Cu.Yd.
From Drive and Approach Tables: Item B-119 = 33.3 Cu.Yd.
From Calculations: Item I-18 = 620.3 Cu.Yd.
From Calculations: Item I-22 = 2236.3 Cu.Yd.
Total 21,300.9 Cu.Yd.
21,300.9 x 5 ÷ 1000 = 106.5 M.Gal.
Total to Non-Federal Participation U.S.25 Calculations 106.5 M.Gal.

Federal Participation:
From Roadway Earthwork Tables: - 37,590.0 Cu.Yd.
From Drive & Approach Tables Item B-119 = 188.0 Cu.Yd.
From Calculations Item I-18 = 914.0 Cu.Yd.
From Calculations Item I-22 = 1693.6 Cu.Yd.
Total = 40,385.6 Cu.Yd.
40,385.6 x 5 ÷ 1000 = 201.9 M.Gal.
Total to Federal Participation U.S.25 Calculations 201.9 M.Gal.

ITEM L-9 COMMERCIAL FERTILIZER (10-6-4)

Non-Federal Participation:
From Roadside Improvement Table = 34,565 Sq.Yds.
34,565 x 9/1000 x 20/2000 = 3.11 Tons
Total to Non-Federal Participation U.S.25 Calculations 3.11 Tons.

Federal Participation:
From Roadside Improvement Tables = 47,555 Sq.Yds.
47,555 x 9/1000 x 20/2000 = 4.28 Tons.
Total to Federal Participation U.S.25 Calculations 4.28 Tons.

U.S.R 25 TEMPORARY CONNECTION CALCULATIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

167
466

AUGLAIZE COUNTY
AUG-25-5.05

Sheet

End

85 86 87 88 89 90

907.00 906.50 910.00 911.50 913.00 914.50 916.00 917.50 919.00

3.0%

905
900
895

111%	902.67							
90	902.20	1.83	902.43					
88	901.49	0.90	900.13					
135	900.33	0.68	901.13					
				90043	89903	90029	90039	

75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90

PLAN & PROFILE STA. 75+00 TO STA. 90+00 EX. 25 TEMPORARY CONNECTION

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

168
466

AUGLAIZE COUNTY
AUG-25-5.05

Tacked Hub
100'
Prop. 33?
100'
Tacked Hub

P.O.T. Sta. 100+37.85

Sheet

Begin

End

Sta. 101+00 Begin Flare

Sta. 103+50 End Flare

To Remain in Place 2 5" F.T. 2

6" F.T.

Sta. 268+36.71, Ex. U.S.R. 25 =
Sta. 100+00 on U.S.R. 25 Temporary Connection.

Canning Factory Road

For Details & Quantities Not Shown See Sheet No. 146

Conc. Curb & Gutter

Concrete Curb & Gutter

P.T. Sta. 199+00
Elev. 946.00

Conc. Curb & Gutter

℄ Existing U.S.R. 25

℄ Proposed Future Southbound

Main Line B & O. R.R.

℄ Existing U.S.R. 25

93° 19½'

B.M. Brass Plate In Culvert Head Wall
Lt. Sta. 263+05 On Exist U.S.R. 25 Elev. 902.15

B.M. RR. Spike In Power Pole
Sta. 104+00 -126' Rt. Elev. 904.84

3.0%

3.0%

P.C. Sta. 91+50

1500' V.C.

Top Rail 907.45
Top Rail 907.44
Top Rail 907.63
Top Rail 907.64

905
900
895

90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105

PLAN & PROFILE STA 90+00 TO STA 105+00 EX U.S.R. 25 TEMPORARY CONNECTION

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

169
466

AUGLAIZE COUNTY
AUG-25-5.05

Typo Corrected by FEC 7/19/95

Sheet

Begin

End

Sheet

150' R
Proposed Future Ramp "C"

P.T. Sta. 13+26.29 (C) =
Sta. 108+00 - 18' Lt.

Sta 12+69.65 - 6' Lt.

S.T. Sta. 13+04.38 (D)

T.S. Sta. 13+56.88 (D)

Tacked Hub
100'
Prop. U.S. 33
100'
Tacked Hub

P.O.T. Sta. 114+29.16

S.C. Sta. 18+36.80 (D)

C.S. Sta. 17+76.10 (D)
Sta 17+08.81 - 8' Rt.

Sta. 18+09.81 - 10' Rt.

S.T. Sta. 20+28.18 (D)

See Detail Sheet Nº 177

1-D

Sta. 19+10.0 - Prop
Twin 24" ϕ S.P. Pipe

Sta. 105+61.97 - 92' Rt.

Sta. 106+21.97 - 86' Rt.

Sta 108+81.97

Prop. Future West bound ℄

℄ Prop. Future East bound ℄

P.I. Sta. 13+13.87 (AA) =
Sta 12+73.20 - 90' Rt.

P.I. Sta. 14+61.20 (A)
Sta. 14+00.60 - 16' Rt.

Sta. 114+41

P.I. Sta 17+10.96 (A) =
Sta. 116+00.33 - 27.55' Lt.

Sta. 116+47.16 - 121' Lt.

Sta. 117+10.26 - 161' Lt.

Sta. 117+73.42 (A) =
Sta. 117+23.36 - 16' Rt.

S.T.S. Sta. 117+73.42 (A)
Sta 117+23.36

Sta. 8+87.45 (B) - 8' Rt.

Canning Factory Road

Ex. 10" C.M.P.

Ex. drive to be Abandon

150' R.
Proposed Future Ramp "B"

T.S. Sta. 9+91.09 (A A) =
Sta. 9+87.09 (A)

T.S. Sta. 11+38.42 (A)

S.C. Sta. 12+91.09 (AA)

C.S. Sta. 12+69.09 (AA)

S.C. Sta. 14+38.42 (A)

C.S. Sta. 13+73.42 (A)

T.S. Sta. 16+20.09 (AA) =
Sta. 15+85.96 - 90' Rt.

CURVE DATA

P.I. Sta. 17+10.96 (D)
Δ = 27°-15'
Ls = 250'
D = 7°
Ts = 324.97'
Es = 26.95'
Os = 8°-45'
p = 3.18'

K = 124.90'
Xc = 249.42'
Yc = 12.70'
LT = 166.87'
S.T. = 83.52'
L.C. = 249.74'
Δc = 9°-45'
Lc = 139.29'

CURVE DATA RAMP "A"

P.I. Sta. 14+61.20 (A)
Δ = 30°-09'
D = 9°
Ls = 300'
Ts = 322.78'

Es = 28.74'
Os = 13°-30'
p = 3.80'
K = 149.72'
Xc = 298.34'

Yc = 23.47'
LT = 200.58'
S.T. = 100.53'
L.C. = 299.26'
Δc = 3°-09'

Bench Mark
R.R. Spike in ϕ 135' Rt. of Sta. 112+94
El. 906.94

Bench Mark
R.R. Spike in ϕ 136' Rt. Sta. 116+32
Elev. 907.00

927.55 926.94 926.30 926.64 924.95 924.24 923.50 922.00 920.50 919.00 917.50 916.00 914.50 913.77 913.06 912.43 911.82 911.25 910.72 910.23 909.76 909.37 909.00 906.67 906.36 906.13 907.92 907.75 907.62 907.53 907.48 907.47 907.50 907.60 907.70 907.80 907.90 906.00 906.10 906.20 906.30 906.40 906.50 906.60

-3.0%

500' V.C.

1500' V.C.

P.C. Sta. 109+50

P.T. Sta. 106+50

P.T. Sta. 114+50

Prop. Future Grade ℄

0.20%

P.I. Sta. 112+00
Elev. 907.00

905
900
895

904.83 904.35 904.35 903.73 904.27 904.47 905.47 906.67 905.67 904.97 905.57 904.20 905.00 904.00 903.50 904.80

105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120

PLAN & PROFILE STA. 105+00 TO STA 120+00 EX. U.S.R. 25 TEMPORARY CONNECTION

FED. RD. DIVISION	STATE	PROJECT		170
2	OHIO			466

AUGLAIZE COUNTY
AUG-25-5.05

Tacked Hub
100'
Prop. U.S. 33
100'
Tacked Hub
P.O.T. Sta. 130+80.77

Sta. 134+24 - 130' Lt. - Begin
8" I-3 Pipe - F/L 904.44
6" F.T.
E-12 Pipe Removed
3-D
121.87
6" I-3
Sheet

Sheet
See Detail Sheet No. 191
1-A
R/W Fence
Abandon ℄
4"×12" I-3
Ex. 8"
Sta. 123+36 - 38' Lt. I-6 No. 12A C.B.
F/L Grate 904.6 - F/L 8" 901.7
2-D
Prop. 8" I-3 Pipe
℄ Exist. Drive - Abandon
166.7
Prop. 12"×74' I-2 Under Pav't.
120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135
90° 10+00
4"×12" I-3
Prop. Future Eastbound - Prop U.S.R. 33
1-D
See Detail Sheet No. 192
166.02
℄ Field Drive
Abandon
Sta. 123+41 - 37' Rt. I-6 No. 12A C.B.
F/L Grate 905.2 - F/L 8" 901.6
R/W Fence
Begin
End
Coming Factory Road
End R/W Fence 137
152.5
Begin R/W Fence 129
Ex. Inlet
℄ Ex. Drive
Abandon
℄ Ex. Drive

B.M. R.R. Spike in ℄ South side of Road
Sta. 127+30 - 180' Rt. Elev. 908.58

B.M. R.R. Spike in 12" Walnut 170' Lt.
Sta. 134+70± Elev. 910.30

906.60 906.70 906.80 906.90 909.00 909.10 909.20 909.30 909.40 909.45 909.51 909.55 909.65 909.75 909.81 909.90 910.00 910.20 910.40 910.60 910.80 911.00 911.20 911.40 911.60 911.80 912.00 912.20 912.40 912.60 912.80 913.00 913.20 913.40 913.60

200' V.C.
P.C. Sta. 124+00
P.T. Sta. 126+00
+.20%
+.40%
910
905
900
℄ of 8" I-3 Pipe on Lt.
P.I. Sta. 125+00
Elev. 908.60
136 - 38' Lt. 71.8" I-3
901.7

904.80 906.10 906.50 905.92 - 166 906.62 905.32 906.58 907.42 906.42 907.22 908.62 909.21 909.57 909.51 909.71 910.31 910.45 909.85

120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135

PLAN & PROFILE STA 120+00 TO STA 135+00 EX USR 25 TEMPORARY CONNECTION

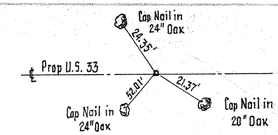
FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

171
466

AUGLAIZE COUNTY
AUG-25-5.05

CURVE DATA

P.I. Sta. 145+80.30
Δ = 22°-55'-30" Rt.
D = 1°-20'
R = 4297.18
L = 1719.38
T = 871.34
E = 87.45



P.I. Sta. 145+80.30

PLAN & PROFILE STA 135+00 TO STA 150+00 EX USR 25 TEMPORARY CONNECTION

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

172
466

AUGLAIZE COUNTY
AUG-25-5.05

CURVE DATA PROP FUTURE U.S.R. 33

P.I. Sta. 167+16.71 Xc = 199.98'
Δ = 36° 00' Yc = 2.33'
Dc = 2° 00' R = 2864.79'
Lc = 1600' K = 100'
Ts = 1031.01' L.T. = 133.34
Ls = 200' S.T. = 66.67'
Es = 146' L.C. = 199.99
Θs = 2° 00'

REMOVE & GRADE EXISTING ROAD
See Typical Section, Sheet No. 185

℄ of Ex. Drive Abandon

Tacked Hub in East side of fence

Prop. U.S. 33

100'

Hub P.T.

410 F.T.

Tacked Hub in East side of Fence

P.T. Sta. 154+28.29

2D

E-12 Pipe Removed
Excavate Channel - 4 Cu. Yds.

Tacked Hub 2.2' W of Fence

66°-48'

230'

Prop. U.S. 33

T.S.

250'

95°-52'

Tacked Hub 1.8' W. of Fence

T.S. Sta. 156+85.70

SHEET

BEGIN

R/W Fence

Canning Factory Road

See Detail Sheet No. 185

1-D

R/W Fence

Prop 30" S.D.

T.S. Sta. 156+85.70

Sta. 157+62.16 (A) T.S.

S.C. Sta. 158+85.70

S.C. Sta. 160+12.16 (A)

±48'±

Abandon

℄ Ramp "A"

1-G

2-G

END

R/W Fence

SHEET

Proposed Future Westbound Lanes U.S.R. 33

Abandon

Proposed Future Eastbound Lanes U.S.R. 33

1-U

See Detail Sheet No. 194

P.C. Sta. 152+50 (A)

Sta. 152+50 (A)

Sta. 153+26 End 1-4

Prel. Undercrain

P.T. Sta. 154+28.29

End R/W Fence ±70

Begin R/W Fence ±17

End R/W Fence ±00

1-A

2-A

16'

PROP. FUTURE U.S.R. 33
CURVE DATA

L = 1719.38 R = 4297.18
T = 871.34 D = 1° 20'
E = 87.45 Δ = 22° 55' 30"
P.C. Sta. 137+06.96 P.I. Sta. 145+60.30
P.T. Sta. 154+26.34

P.T.

154+87 (A) ±74 Rt.

Note: Drive to be built by Property Owner

B.M. R.R. Spike in fence Post W. side of lane S. side of Canning factory Rd. 350 Lt. Sta. 160+00 - Elev. 918.29

℄ Field Drive & Quins Inn Canning Factory Road

Proposed Future

916.60 916.92 919.04 919.16 919.28 919.40 919.46 919.69 919.74 919.92 920.13 920.36 920.66 920.98 921.34 921.72 922.15 922.60 923.09 923.62 924.18 924.76 925.41 926.07 926.77 927.50 928.29 929.00 929.50 930.50 932.00 932.75 933.49 934.20 934.89 935.55 936.19 936.80 937.38 937.95 938.49 939.00 939.49 939.95 940.39 940.80 941.19 941.55 941.89 942.20 942.49 942.75 942.99 943.20 943.40

Proposed Profile 12' Rt of ℄ of Ramp "A"

919.21 919.28 919.36 919.45 919.55 919.67 919.80 919.95 920.10 920.27 920.46 920.65 920.86 921.08 921.31 921.56 921.82 922.10 922.39 922.68 922.99 923.31 923.63 923.95 924.27 924.58 924.90 925.22 925.54 925.86 926.18 926.49 926.81 927.13 927.45 927.77 928.08 928.40 928.72 929.04 929.36 929.66 930.01 930.35 930.71

Prop. Profile of Service Rd. Rt.

Meet Approach Pav't. Edge

187 500 V.C. RAMP "A"

P.C. Sta. 152+50

P.I. Sta. 157+50

±3.0%

Prop. Future Grade 2

P.C. 162+08 (A)

500' V.C.

PROPOSED PROFILE 12' RT. OF ℄ OF RAMP "A"

1500 V.C.

TEMPORARY CONNECTION

1.275%

± 0.24% (Prop. Grade)

Prop. Profile of Service Road

Ramp "A"

Ramp "A"

Ramp "A"

℄ of I-4 - 14' Rt

P.I. Sta. 155+00
Elev. 920.0
P.I. Sta. 165+00 (A) Elev. 918.61

915.62 ±00 I-4 ℄ 913.40 915.82 916.62 915.61 125' ℄ of I-4 914.38 914.77 916.07 916.37 917.87 917.77 916.67 916.47 917.43 916.73 916.03 919.30

920 915 910 935 930 925 920 915 910

150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165

PLAN & PROFILE STA. 150+00 TO STA. 163+50(A) EX. U.S.R. 25 TEMPORARY CONNECTION

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

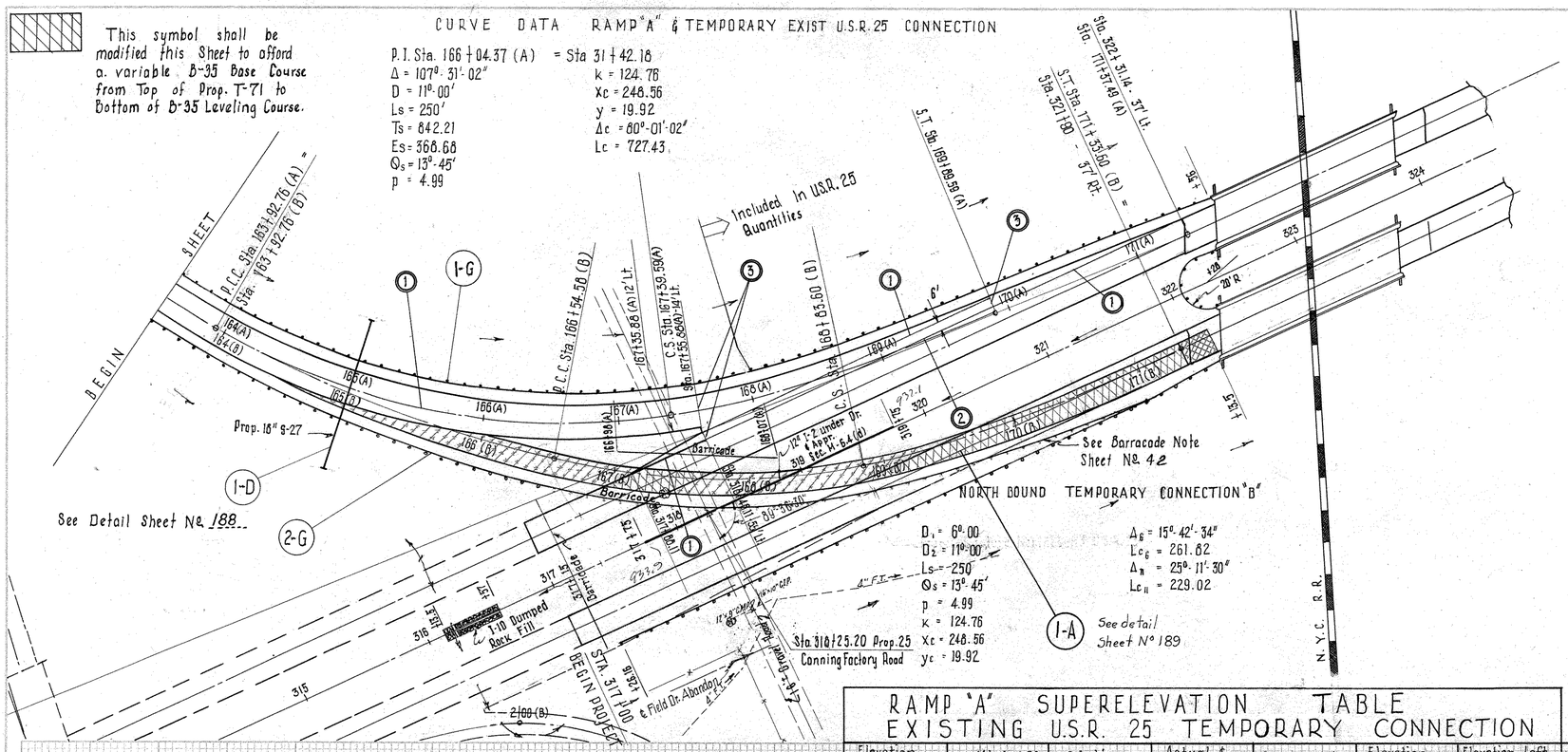
173
466

AUGLAIZE COUNTY
AUG-25-5.05

This symbol shall be modified this Sheet to afford a. variable B-35 Base Course from Top of Prop. T-71 to Bottom of B-35 Leveling Course.

CURVE DATA RAMP "A" & TEMPORARY EXIST U.S.R.25 CONNECTION

P.I. Sta. 166+04.37 (A) = Sta 31+42.18
Δ = 107°-51'-02"
D = 11°-00'
Ls = 250'
Ts = 842.21
Es = 366.68
Θs = 13°-45'
p = 4.99
k = 124.76
Xc = 248.56
y = 19.92
Δc = 80°-01'-02"
Lc = 727.43

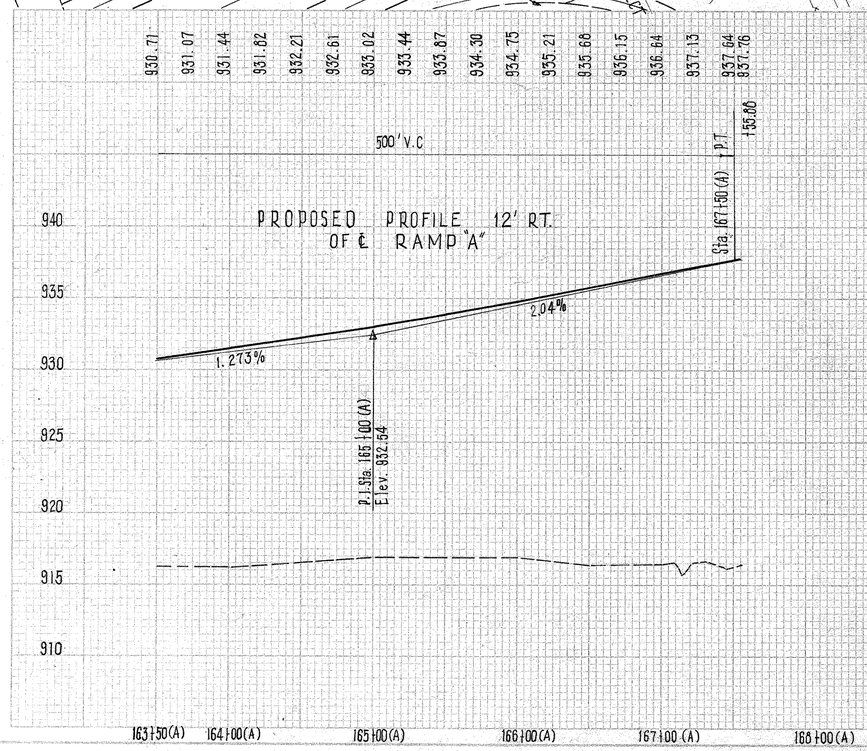


NORTH BOUND TEMPORARY CONNECTION "B"

Elev. Lt.	Width Lt.& Rt.	Station	Actual ℄ Elev.	Superelevation	Elev. Rt.
		163+92.76 (B)			931.34
Meet		164+00 (B)			931.44
Ramp "A"		+25			931.84
Pvmt Edge		+50			932.26
		+75			932.84
		165+00 (B)			933.42
		+25			934.01
		+50			934.67
		+75			935.43
934.89	6'	166+00 (B)	935.56	1.33	936.22
935.68		+25	936.35	1.33	937.01
936.47		+50	937.14	1.33	937.80
937.26		+75	937.93	1.33	938.59
936.06		167+00 (B)	936.73	1.33	939.39
936.67		+25	939.34	1.33	940.00
936.94		+50	939.61	1.33	940.27
939.08		+75	939.75	1.33	940.41
939.29		168+00(B)	939.92	1.26	940.55
939.52		+25	940.10	1.17	940.69
939.75		+50	940.29	1.08	940.83
939.97		+75	940.47	1.00	940.97
940.19		169+00 (B)	940.67	0.91	941.10
940.41		+25	940.83	0.83	941.24
940.64		+50	941.01	0.74	941.38
940.86		+75	941.19	0.66	941.52
941.06		170+00 (B)	941.37	0.58	941.66
941.31		+25	941.55	0.46	941.79
941.73		+50	941.73	0.40	941.93
941.73		+75	941.90	0.33	942.06
941.65		171+00 (B)	941.97	0.21	942.06
941.97		+25 (B)	942.09	0.00	941.97
	8'	+33.60 (B)			

RAMP "A" SUPERELEVATION TABLE
EXISTING U.S.R. 25 TEMPORARY CONNECTION

Elevation Left Edge	Width Lt.& Rt.	Station	Actual ℄ Elevation	Superelevation	Elevation Right Edge	Elevation Left Edge	Width Lt.& Rt.	Station	Actual ℄ Elevation	Superelevation	Elevation Right Edge
920.46	12'	155+00 (A)	920.65	0.00	920.46	927.36	12'	162+50 (A)	928.36	2.00	928.36
920.65		+25	920.84		920.65	927.68		+75	928.68		929.68
920.86		+50	921.05		920.86	928.01		163+00 (A)	929.01		930.01
921.08		+75	921.27		921.08	928.35		+25	929.35		930.35
921.31		156+00(A)	921.50		921.31	928.71		+50	929.71		930.71
921.56		+25	921.75		921.56	929.07		+75	930.07		931.07
921.82		+50	922.01		921.82	929.44		164+00 (A)	930.44		931.44
922.10		+75	922.29		922.10	929.82		+25	930.82		931.82
922.39		157+00 (A)	922.58	0.00	922.39	930.21		+50	931.21		932.21
922.62		+25	922.81	0.06	922.68	930.61		+75	931.61		932.61
922.82		+50	923.01	0.17	922.99	931.02		165+00 (A)	932.02		933.02
922.90		+62.16	923.09	0.25	923.15	931.44		+25	932.44		933.44
922.98		+75	923.17	0.33	923.31	931.87		+50	932.87		933.87
923.13		158+00 (A)	923.38	0.50	923.63	932.30		+75	933.30		934.30
923.28		+25	923.62	0.67	923.95	932.75		166+00 (A)	933.75		934.75
923.43		+50	923.85	0.84	924.27	933.21		+25	934.21		935.21
923.57		+75	924.07	1.01	924.58	933.66		+50	934.68		935.68
923.72		159+00 (A)	924.31	1.18	924.90	934.15		+75	935.15		936.15
923.86		+25	924.54	1.36	925.22	934.64		167+00(A)	935.64	2.00	936.64
924.01		+50	924.78	1.53	925.54	935.14		+25	936.14	1.99	937.13
924.15		+75	925.01	1.71	925.86	935.45		+39.59	936.44	1.98	937.43
924.33		160+00 (A)	925.26	1.85	926.18	935.60		+50	—	—	937.64
924.44		+12.16	925.39	1.89	926.33	936.23		+75	—	—	Meet Prop.
924.56		+25	925.53	1.93	926.49	936.81		168+00(A)	—	—	U.S.R 25 Pavt
924.82		+50	925.82	1.99	926.81	937.41		+25	—	—	Edge
925.13		+75	926.13	2.00	927.13	938.02		+50	—	—	
925.45		161+00 (A)	926.45		927.45	938.63		+75	—	—	
925.77		+25	926.77		927.77	939.24		169+00(A)	—	—	
926.08		+50	927.08		928.08	939.84		+25	—	—	
926.40		+75	927.40		928.40	940.39		+50	—	—	
926.72		162+00(A)	927.72		928.72	940.80		+75	—	—	
927.04	12'	+25	928.04	2.00	929.04	940.96		+89.59	—	—	



① Standard Longitudinal Joint
② Standard Key Joint without tie Bars
③ Expansion Joint without Dowels. (Located on radial lines.

EXISTING U.S.R. 25 TEMPORARY CONNECTION RAMP "A"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

174-466

AUGLAIZE COUNTY
AUG - 25 - 5.05

CURVE DATA

P.I. Sta. 167+16.71
Δ = 360°-00'
Dc = 2°-00'
Lc = 1800'
Ts = 1031.01
Ls = 200'
Es = 146'
Θs = 2°-00'

Xc = 199.98
Yc = 2.33
R = 2864.79
K = 100
L.T. = 135.34
S.T. = 66.67
L.C. = 199.99

P.I. Sta. 167+16.71

Tacked Hub
37°-02'-30"
100'
199.97
P.I.
S.R. 25
100'
199.04
39°-17'
Tacked Hub
1.71
Tacked Hub

SHEET

BEGIN

89°-11-10" To Tangent

Sta. 312+98.46 U.S.R. 25 =
Sta. 166+73.70 Prop. Fut. U.S.R.33

Sta. 312+98.46 Prop. U.S.25
Sta. 166+73.70 Prop U.S.33

P.I. Sta. 166+104.27 (A)
Sta. 312+42.16 - 64.50 Lt.

P.I. Sta. 167+16.71

Prop. Future USR 25

P.I. Sta. 166+75
Elev. 955.25

3.0%

S.T.

P.T.

T.S.

S.C.

C.S.

Proposed Future Ramp "B"

Proposed Future Ramp "C"

Proposed Future Ramp "E"

16'

Prop. Future

Pump

Proposed Future U.S.R. 33

Theodore & Hellen Erb

Theodore & Hellen Erb

Tacked Hub
100'
Prop. U.S.33
100'
Tacked Hub

S.T. Sta. 176+85.70

C.S. Sta. 174+85.70

S.T. Sta. 176+85.70

SHEET

END

9100(B)
10100(B)
11100(B)
12100(B)
8100(B)
10100(C)
11100(C)
2100(E)
3100(C)
13100(E) 40'R
12100(E)

311 312 313 314 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180

943.40 943.55 943.69 943.80 943.89 943.96 943.99 944.00 943.99 943.96 943.89 943.80 943.68 943.55 943.40 943.20 942.98 942.75 942.49 942.20 941.89 941.55 941.19 940.80 940.39 939.95 939.49 939.00 938.49 937.95 937.39 936.80 936.19 935.65 934.69 934.20 933.49 932.75 932.00 930.50 929.00 928.27 927.59 926.96 926.35 925.84 925.34 924.90 924.50 924.15 923.84 923.59 923.36 921.21 923.09 923.02 923.00 923.00

940 935 930 925 920 915 910

Prop. Future Grade

1500' V.C.

P.T. Sta. 174+25

3.0%

400' V.C.

P.C. Sta. 175+50

P.T. Sta. 179+50

P.I. Sta. 177+50
Elev. 923.00

919.30 917.70 915.70-917.82 916.60 917.69 915.99 917.09 917.09 917.89 917.23 917.33 916.67 916.97 916.37 916.27 916.07 916.07

165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180

PLAN & PROFILE STA. 165+00 TO STA. 180+00 EX. U.S.R.25 TEMPORARY CONNECTION

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

175
466

AUGLAIZE COUNTY
AUG-25-5.05

P.T. Sta. 154+28.34

T.S. Sta. 156+85.70

T.S. Sta. 157+62.16 (A)

S.C. 159+85.70

S.C. 160+12.16 (A)

Ramp "A"
To be built
Δ = 107°-31'-02"
D = 11°-00'
Ls = 250'

C.S. Sta. 167+59.59 (A)

C.S. (B)

S.T. Sta. 168+89.59 (A)

S.T. (B)

Sta. 322+31.14 = Sta. 171+37.45 (A)

Temporary Ramp "B" to be built.

Proposed Future South Bound U.S.R. 25

Sta. 172+42.16 = 84.5 Lt.

S.C.

Ramp "D"

Prop. Future Ramp "D"
Curve Data
D = 9°-00'
Ls = 300'

Prop. Future Ramp "C"
Curve Data
D = 25°-00'
Ls 200'

Prop. Future Ramp "E"
Curve Data
D = 20°-00
Ls = 200'

PROPOSED FUTURE RAMP "B"

CURVE DATA
D = 25°-00'
Ls = 200'

Sta. 171+98.46 Prop. U.S.R. 25 = Sta. 165+73.70 Prop. Fut. U.S.R. 33

Ramp "B"

C.S. Sta. 174+85.70

S.T. 176+85.70

End Flare

Begin Flare

Note: Traffic Count shown is 24 hour design count based on 1955 Traffic Count to the year 1975.
* With Prop. U.S.R. 33 Bypass built.

PROP. FUTURE U.S.R. 33 BYPASS & PROP. U.S.R. 25 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

176
466

AUGLAIZE COUNTY
AUG - 25 - 5.05

PROPOSED FUTURE PROFILE
8' LT OF ℄ OF RAMP "B"

951.42
177
941.22
119
P.I. Sta. 4+00(B)±
Elev. 936.46±
400' V.C.
2.26%± ↗
0.216%±
1.66±%
400' V.C.
P.I. Sta. 8+00(B)±
Elev. 937.54
940
935
930
925
1+00(B) 2+00(B) 3+00(B) 4+00(B) 5+00(B) 6+00(B) 7+00(B) 8+00(B) 9+00(B) 10+00(B) 11+00(B)

941.46
134
920.96
121
P.I. Sta. 3+50(C)±
Elev. 936.16±
1.53%↓
PROPOSED FUTURE PROFILE 8' LT
OF ℄ RAMP "C"
300' V.C.
2.656%↓
400' V.C.
0.03%±
940
935
930
925
920
1+00(C) 2+00(C) 3+00(C) 4+00(C) 5+00(C) 6+00(C) 7+00(C) 8+00(C) 9+00(C) P.I. Sta. 9+50(C)±
Elev. 921.08
10+00(C) 11+00(C)

931.73±
161
939.32±
P.I. Sta. 7+50±
2.62%↑
2.943±%
300' V.C.
456
921.5
500' V.C.
PROPOSED FUTURE PROFILE 8' LT.
OF ℄ OF RAMP "D"
0.84%±
P.I. Sta. 14+00(D)±
Elev. 920.70±
935
930
925
920
915
4+00(D) 5+00(D) 6+00(D) 7+00(D) 8+00(D) 9+00(D) 10+00(D) 11+00(D) 12+00(D) 13+00(D) 14+00(D) 15+00(D) 16+00(D)

149 - 936.96±
1.56%
150' V.C.
937.40±
P.I. Sta. 12+50 (E)
1.10%
P.I. Sta. 11+00(E)±
Elev. 935.75±
150' V.C.
2.10%
930.65
940
935
930
925
920
915
12+00
11+00
10+00
9+00
8+00
7+00
6+00
5+00
4+00
3+00

Profile of Ramp "E"
400' V.C.
P.I. Sta. 8+50(E)±
Elev. 921.16±
0.56%
926.92±

PROPOSED FUTURE PROFILES OF RAMPS "B", "C", "D" ON TENTATIVE PROP U.S.R. 25 & PROP U.S.R. 33 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

177
466

AUGLAIZE COUNTY
AUG-25-5.05

CULVERT DATA

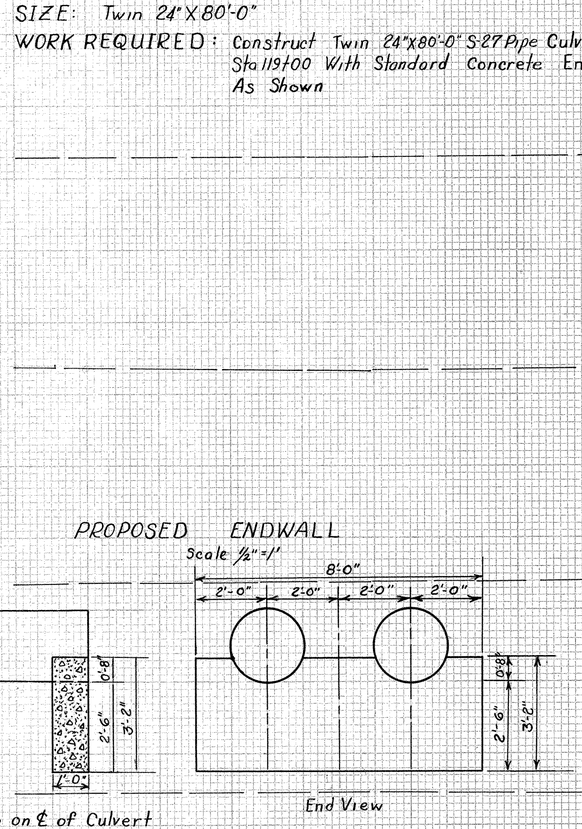
TYPE: Twin 24" S-27 Pipe For Roadway Culverts PID 3 #4

SIZE: Twin 24" X 80'-0"

WORK REQUIRED: Construct Twin 24"X80'-0" S-27 Pipe Culvert At Right Angles to Sta 119+00 With Standard Concrete End walls 42' Lt & 38' Rt As Shown

ESTIMATED QUANTITIES

ITEM E-2	Excavation For Structures	10.0 Cu.Yds.
ITEM-S-1	Concrete For Structures Class "E"	1.64 Cu.Yds.
ITEM S-27	24" Pipe For Roadway Culverts (Sec M6.8b) or M6.6(b)	160.0 Lin. Ft.



END AREA		VOLUME	
CUT	Fill	CUT	Fill
	13		249
			52 872
	15		222
			52 643
Ahead	13		125
Back	11		74
			50 380
	16		131
			128 313
Ahead	53		38
Back	8		29
			9 84
Ahead	0		48
Back	0		43
			0 13
ZERO SECTION 114+25	0		0

EXIST USR 25-TEMPORARY CONNECTION - X-SECTIONS STA. 114+00 TO STA. 119+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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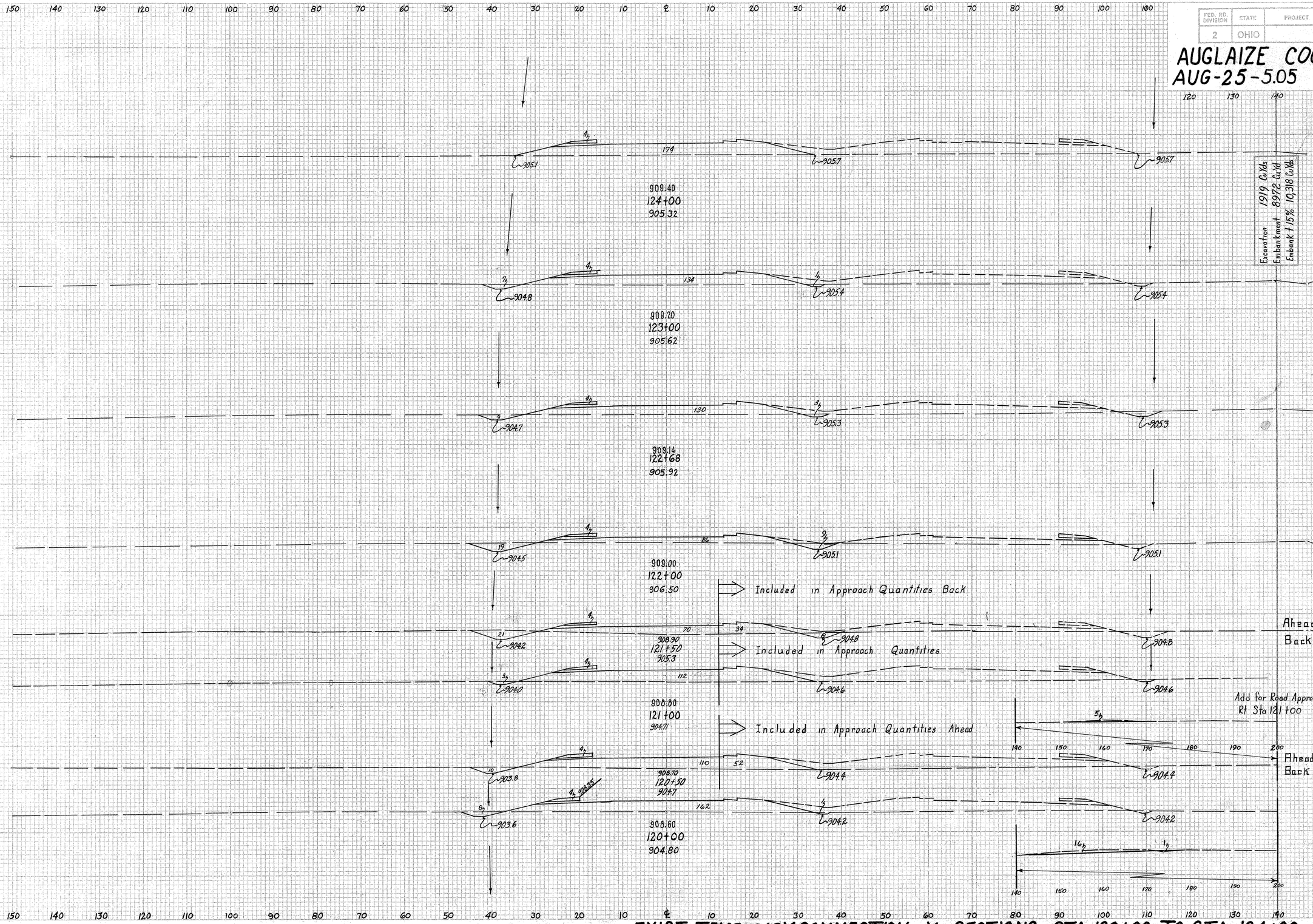
466

AUGLAIZE COUNTY
AUG-25-5.05



Excavation 1919 Cu Yds
Embankment 8972 Cu Yd
Embank ↑15% 10,318 Cu Yds

	END AREA CUT	END AREA Fill	VOLUME CUT	VOLUME Fill
	0	178		
			15	585
	8	138		
			12	161
	12	134		
			50	282
	28	90		
			53	184
Ahead	29	108		
Back	21	74	22	176
	3	116		
			126	730
			12	213
Ahead	10	114		
Back	15	166		
			37	309
	25	167		

EXIST TEMPORARY CONNECTION X-SECTIONS STA. 120+00 TO STA. 124+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY
AUG-25-5.05

End AREA		VOLUME	
CUT	Fill	CUT	Fill
64	70		
		206	246
47	63		
		120	337
18	119		
		54	461
11	130		
		26	572
3	179		
		37	529
17	104		
		31	469
0	149		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

47 4½ 66 17½ 4½
906.9 908.0 908.0
912.00
131+00
909.51

35 4½ 59 12½ 4½
906.6 907.5 907.5
911.60
130+00
909.21

19 4½ 115 4½
906.3 907.2 907.2
911.20
129+00
908.62

7½ 4½ 126 4½
906.0 906.9 906.9
910.80
128+00
907.22

2½ 4½ 125 1½
905.7 906.6 906.6
910.40
127+00
706.42

5½ 4½ 100 12½
908.4 906.3 906.3
910.00
126+00
907.42

145
905.1 906.0 906.0
909.65
125+00
905.82

EXIST USR 25 TEMPORARY CONNECTION X-SECTIONS STA. 125+00 TO STA. 131+00

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

180
466

AUGLAIZE COUNTY
AUG-25-5.05

~ CULVERT DATA ~

TYPE: S-27 Pipe P.C. 344
SIZE: 30" x 100'
WORK REQUIRED: Construct S-27 Pipe Culvert At Right Angle To Sta 136+00 With Standard End Walls 54' Lt. & 46' Rt. As Shown.

~ ESTIMATED QUANTITIES ~

ITEM E-2	Excavation For Structures	44 Cu. Yds.
ITEM S-1	Concrete For Structures Class "E"	1.02 Cu. Yds.
ITEM S-27	Pipe For Roadway Culverts 30" Sec M6.8(b) or Sec M6.6(b)	100 Lin. Ft.

Excavation 3674 Cu.Yd.
Embankment 94439 Cu.Yd.
Embank. 115% 10,855 Cu.Yds.

END AREA		VOLUME	
CUT	FILL	CUT	FILL
58	322		
		100	617
50	349		
		97	526
54	224		
		117	352
72	156		
		256	493
66	110		
		191	346
37	77		
		165	296
52	83		
		215	283
Sta. 131+00	64	70	

914.41 322 914.01 914.41 914.01
20 905.2 38 9060 9062
914.20 136+50 908.75

914.00 913.81 914.00 913.81
340 49
9050 Prop. 30"X100' S-27 Pipe @ 1.0% 9060 9060
914.00 136+00 908.45
F.L.Elev. 9050 54'-0" 100'-0" 46'-0" F.L.Elev. 906.0

913.63 913.61 913.63 913.61
220 52
2 9053 9068 9068
913.80 135+50 909.45

152
24 9060 18 9074 9074
913.60 135+00 909.85

106
36 9068 30 9090 9090
913.20 134+00 910.45

73
25 9075 18 9095 9095
912.80 133+00 910.31

79
40 9072 12 9085 9085
912.40 132+00 909.71

EXIST USR.25 TEMPORARY CONNECTION X-SECTION STA. 132+00 TO STA. 136+50

End Area		Volume	
Cut	Fill	Cut	Fill
18	9		
		29	11
27	7		
		22	10
20	14		
		32	17
19	6		
		12	9
13	16		
		7	9
0	0		

Sta 136+80 Begin Work

SERVICE ROAD
EARTHWORK

914.94
138+35
910.96

914.80
138+00
910.95

914.70
137+75
909.85

914.52
137+30
908.45

914.40
137+00
908.05

914.28
136+70
908.35

END AREA		VOLUME	
CUT	FILL	CUT	FILL
81	240		
		116	318
97	250		
		86	257
88	304		
		101	595
33	410		
		31	468
23	433		
		36	442
41	363		
		37	254
Sta 136+50	58	322	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY
AUG-25-5.05

EXIST U.S.R.25 TEMPORARY CONNECTION X-SECTIONS STA. 136+70 TO STA. 138+35

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

182
466

AUGLAIZE COUNTY
AUG-25-5.05

End Area Cut	End Area Fill	Volume Cut	Volume Fill
180	0		
		285	0
128	0		
		208	0
96	0		
		32	0
78	0		
		88	10
41	14		
		57	24
20	12		
		11	6
18	9		

Sta. 138+35

915.00
138+50
910.66

915.20
139+00
910.16

915.36
139+40
910.56

915.40
139+50
911.06

915.60
140+00
912.66

915.80
140+50
914.13

Note: No additional payment Shall be made for channel Sta 139+00. Deduct "34" Cu Yds from Embankment.

F/L. Prop 2' Bottom Channel
0.3 %

ESTIMATED QUANTITIES
Service Road Sta 139+00
ITEM I-1 18" Pipe for Driveways — 46 Lin Ft.

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		109	53
		151	183
		54	144
		72	386
		23	273
		6	121
		8	378
		7	675
		Minus	34
		1	533
		63	829
		67	372
		41	167
		81	240

EXIST U.S.R. 25 TEMPORARY CONNECTION X-SECTIONS STA 138+50 TO STA 140+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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466

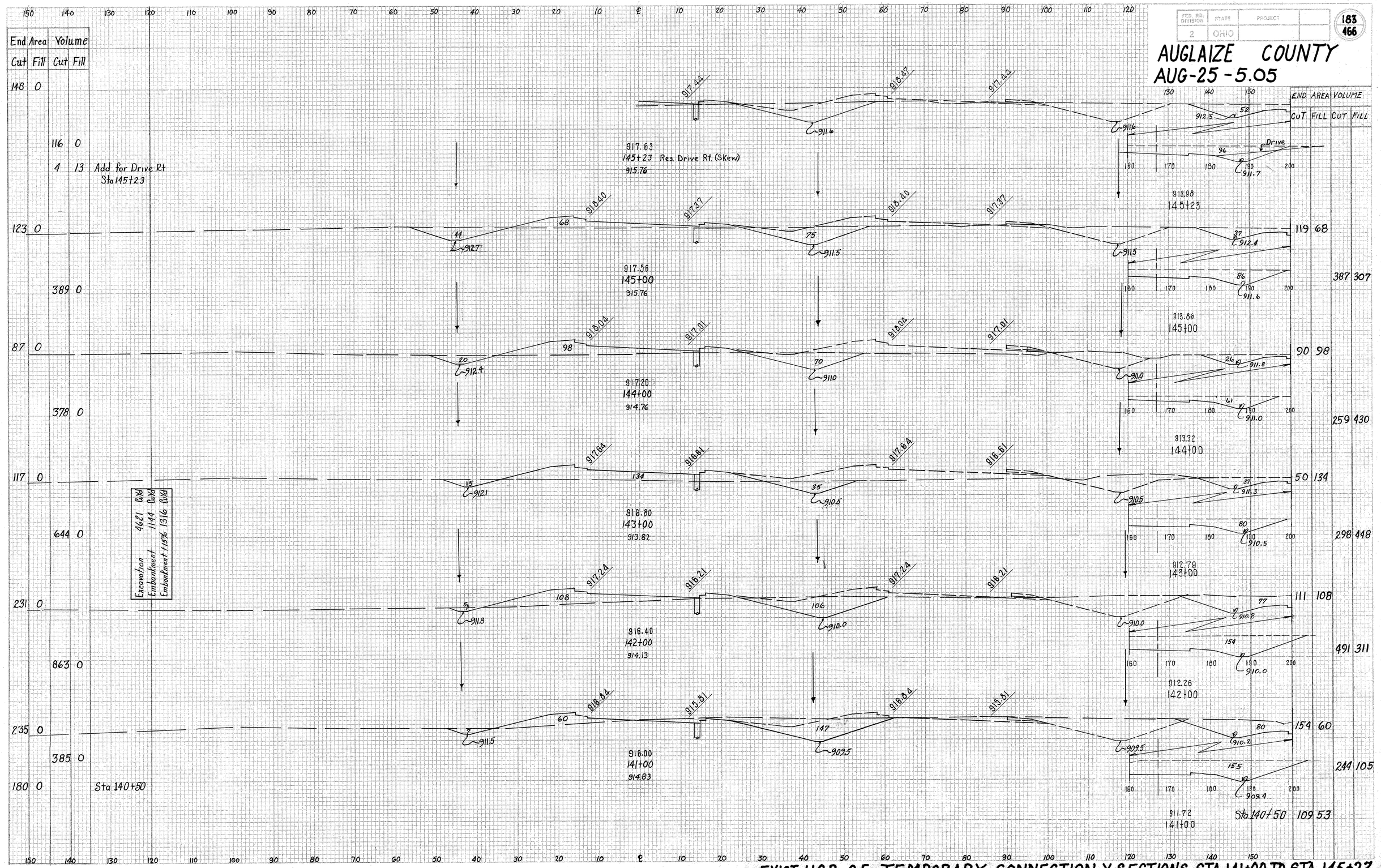
AUGLAIZE COUNTY
AUG-25-5.05

End Area		Volume	
Cut	Fill	Cut	Fill
148	0		
		116	0
		4	13
123	0		
		389	0
87	0		
		378	0
117	0		
		644	0
231	0		
		863	0
235	0		
		385	0
180	0		

Add for Drive Rt Sta 145+23

Sta 140+50

	CY
Excavation	4621
Embankment	1144
Embankment +15%	1316



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		119	68
		387	307
		90	98
		259	430
		50	134
		298	448
		111	108
		491	311
		154	60
		244	105
		109	53

EXIST USR 25 TEMPORARY CONNECTION X-SECTIONS STA. 141+00 TO STA. 145+23

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY
AUG-25-5.05

End Area Cut	End Area Fill	Volume Cut	Volume Fill
13	30		
		98	83
40	15		
		107	56
18	15		
		69	44
19	9		
		122	17
47	0		
		261	0
94	0		
		345	0
148	0	Sta 145+23	

Profile Approach Rt
See Detail, Sheet No 194

Add for Approach Rt 151+00

916.94 (For Earthwork Only)
151+00
See Detail Sheet No 194

END AREA Cut	END AREA Fill	VOLUME Cut	VOLUME Fill
5	152	0	162
		44	565
19	153		
		89	543
29	140		
		128	517
40	139		
		176	494
55	128		
		256	391
83	83		
		374	280
119	68		

EXIST USR 25 TEMPORARY CONNECTION X-SECTIONS STA 146+00 TO STA 151+00

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

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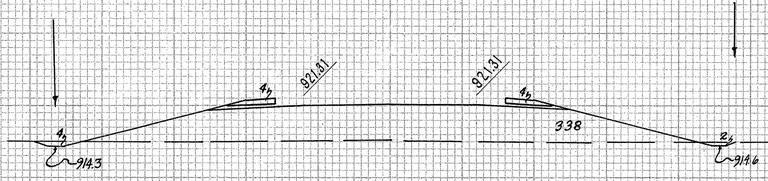
466

AUGLAIZE COUNTY
AUG-25-5.05

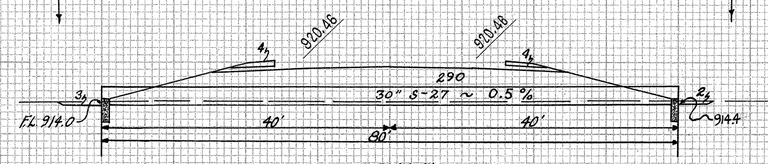
End Area		Volume	
Cut	Fill	Cut	Fill
1	62		
	4	261	
1	79		
	4	267	
1	65		
	3	106	
2	49		
	9	79	
7	36		
	37	122	
13	30		

Sta 151+00

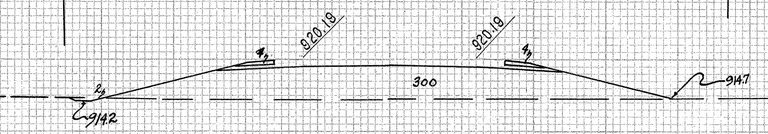


156+00 (A)
915.15

CULVERT DATA
TYPE ~ 30" S-27 Pipe P.C. 3 ¢
SIZE ~ 30" X 80'
WORK REQUIRED ~ ~ Build 30" S-27 Pipe Culvert 90° To ¢ of Construction with Std. Concrete End Walls on Lt & Rt. Sta. 155+00 "A"
End Work Sta 154+87



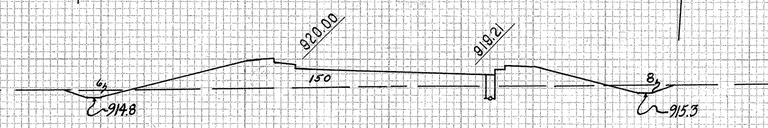
155+00 (A)
914.61



154+00 (A)
914.53



153+00 (A)
915.53



152+50 (A)
916.13



152+00
916.62

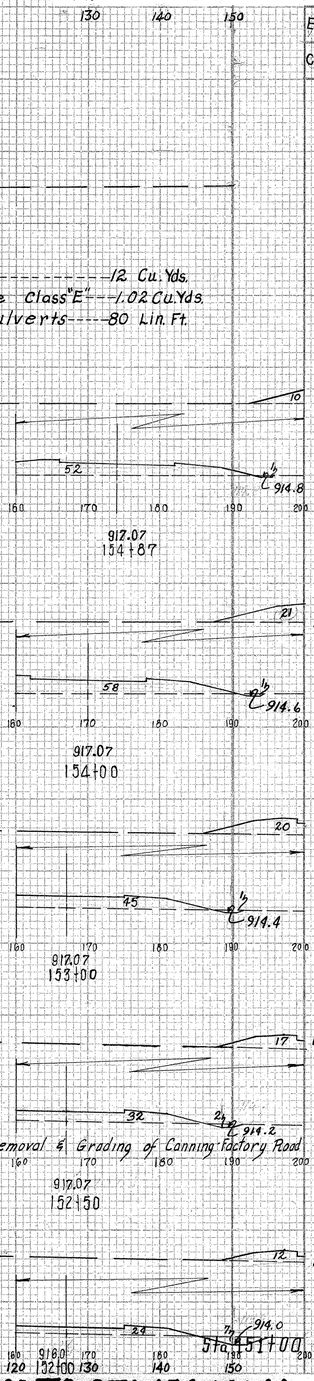
Finished Section Shall be Graded to Drain Free of Stone, Large gravel. Seed

TYPICAL SECTION OF CANNING-FACTORY ROAD TO BE REMOVED

Assumed Length	Length 1307'
Assumed Area	15"
Estimated Excavation	761 Cu. Yds.
Assumed Seeding Width	36'
Estimated Seeding & Protecting	5480 Sq. Yds.
Embankment	761 Cu. Yds.

ESTIMATED QUANTITIES
ITEM E 2 - Excavation for Structure ---------- 12 Cu. Yds.
ITEM S 1 - Concrete for Structure Class "E" --- 1.02 Cu. Yds.
ITEM S 27 -- 30" Pipe for Roadway Culverts ---- 80 Lin. Ft.
See M 6.8 (b) or See M 6.6 (b)

END AREA		VOLUME	
CUT	FILL	CUT	FILL
	6	346	
			20 1193
	5	298	
			13 1122
	2	308	
			15 954
	6	207	
			19 331
	14	150	
			761 761
			25 259
	13	129	
			33 520
	5	152	



EXIST USR 25 TEMPORARY CONNECTION X-SECTIONS STA. 152+00 TO STA. 156+00(A)

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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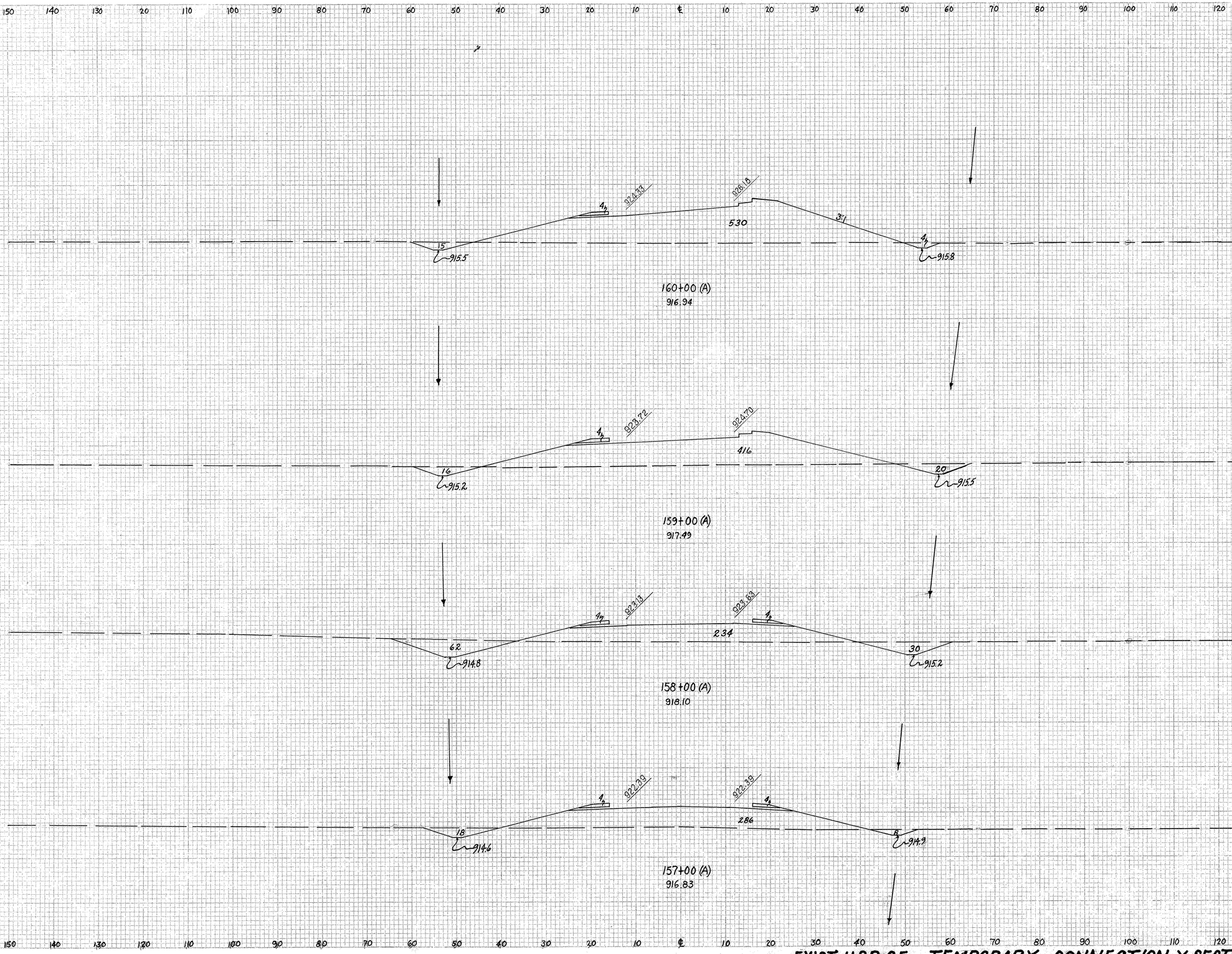
466

AUGLAIZE COUNTY
AUG-25-5.05



	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	19	534		
			102	1767

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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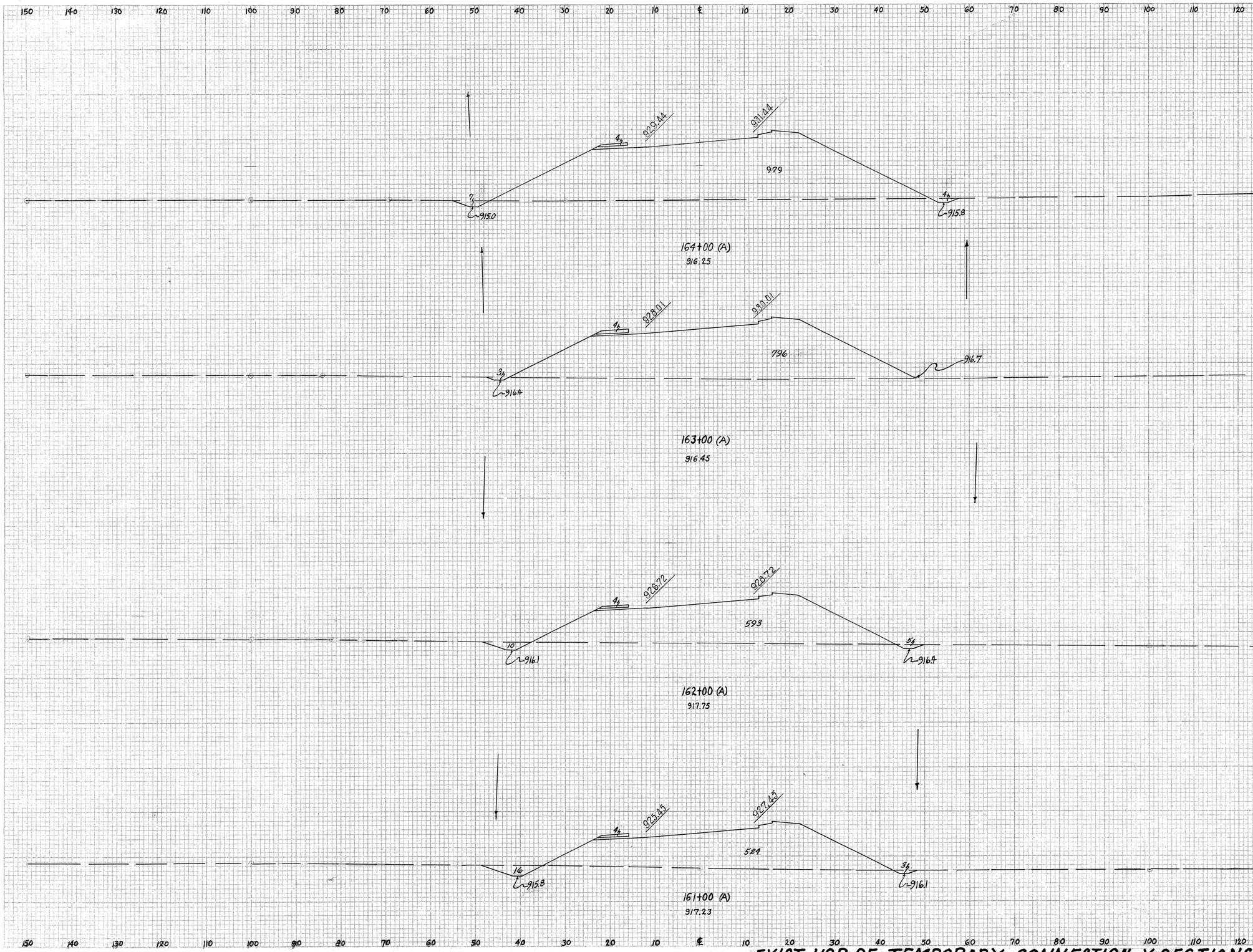
466

AUGLAIZE COUNTY
AUG-25-5.05



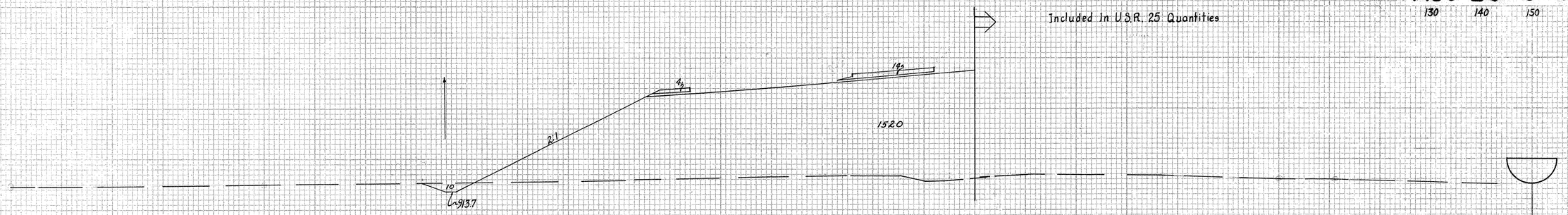
END AREA		VOLUME	
CUT	FILL	CUT	FILL
11	983		
		26	3302
3	800		
		33	2587
15	597		
		63	2083
19	528		
		70	1967
Sta. 160+00	19	534	

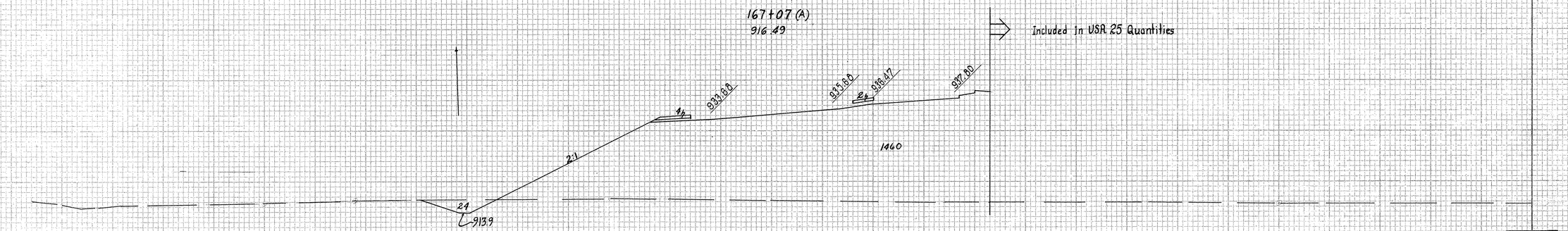
EXIST USR 25 TEMPORARY CONNECTION X-SECTIONS STA. 161+00A TO STA. 164+00

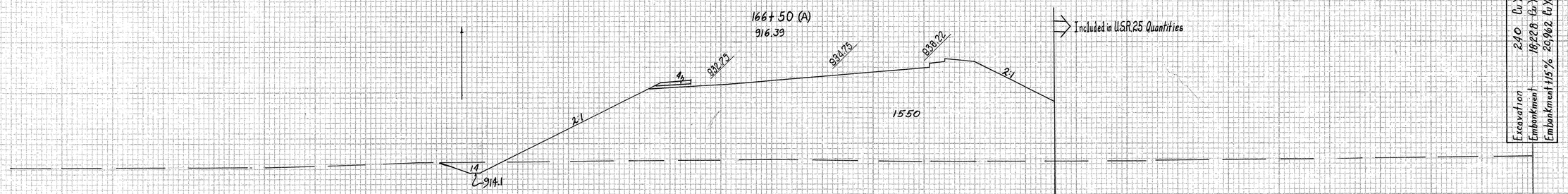
FED. RD. DIVISION	STATE	PROJECT		188 466
2	OHIO			

AUGLAIZE COUNTY
AUG-25-5.05

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

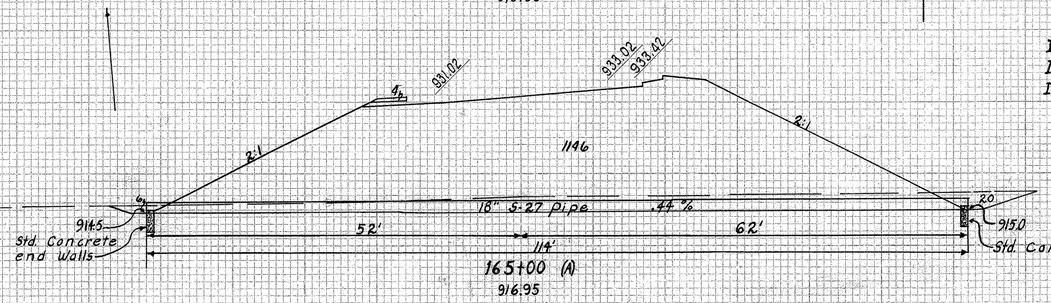






Excavation 240 Cu.Yd.
Embankment 18,228 Cu.Yd.
Embankment 115% 20,962 Cu.Yds.

≈ CULVERT DATA ≈
TYPE ~ 18" S-27 Pipe P.C. 3 & 4
SIZE ~ 18"X 114'
WORK REQUIRED Build 18" S-27 pipe Culvert at 90° to ℄ of Construction with Std. Concrete end walls Lt & Rt. Sta. 165+00

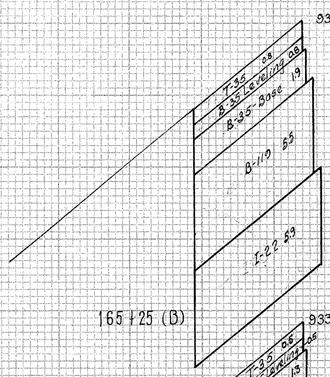


ESTIMATED QUANTITIES
ITEM E-2 Excavation for Structure ..... 26 Cu.Yds.
ITEM S-1 Concrete for Structure Class "E" ..... .6 Cu.Yds.
ITEM S-27 18" Pipe for Roadway Culvert ..... 114 Lin.Ft.
Sec M6.8(b) or Sec M6.6(b)

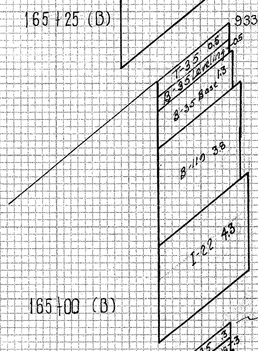
	End AREA		VOLUME	
	CUT	FILL	CUT	FILL
10	1538			
			36	3171
24	1466			
			35	2797
14	1554			
			74	5008
26	1150			
			69	3950
Sta 164+00	11	983		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

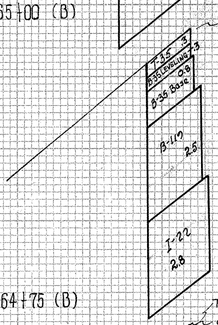
EXIST USR 25 TEMPORARY CONNECTION X-SECTIONS STA 165+00(A) TO STA 167+07(A)



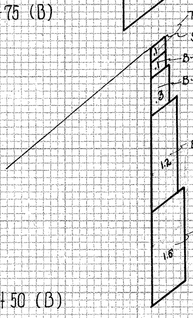
165+25 (B)



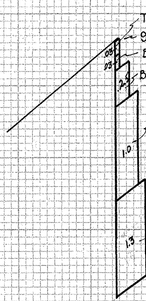
165+00 (B)



164+75 (B)



164+50 (B)



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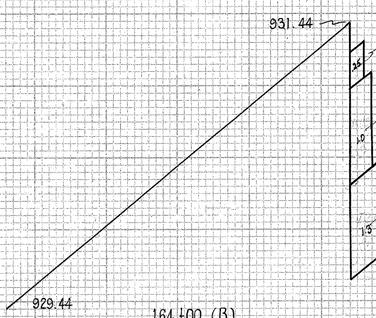
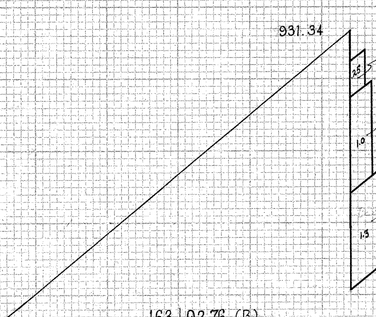
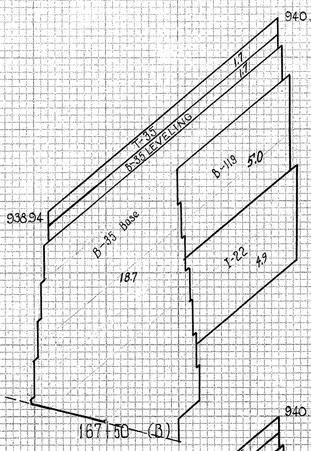


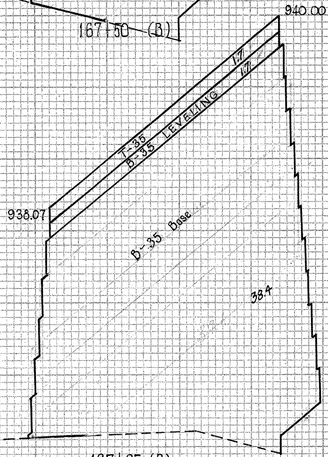
164+00 (B)



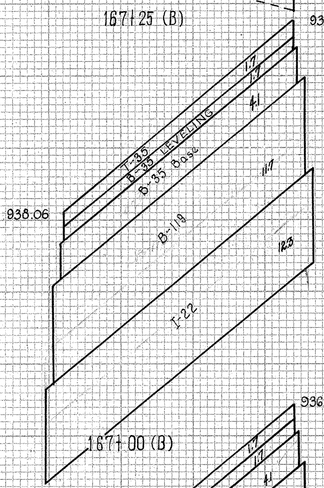
163+92.76 (B)



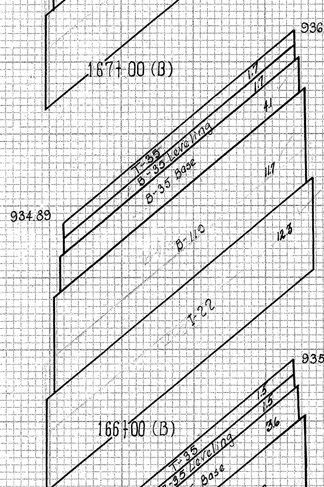
167+50 (B)



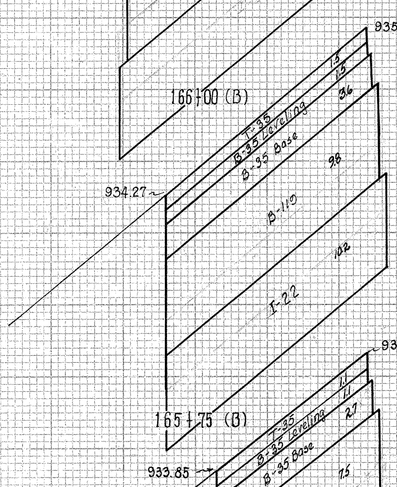
167+25 (B)



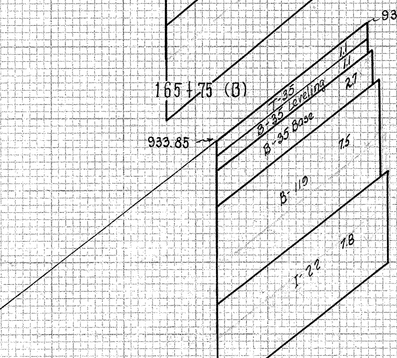
167+00 (B)



166+00 (B)



165+75 (B)



165+50 (B)

ESTIMATED PAVEMENT QUANTITIES

Item B-35	Asphaltic Concrete Leveling Course (70-80)	39.2 Cu.Yd.
Item B-35	Asphaltic Concrete Base Course (70-80)	442. Cu.Yd.
Item B-119	Crushed Aggregate Base Course	154.3 Cu.Yd.
Item I-22	Subbase	162.8 Cu.Yd.
Item T-30	Bituminous Prime Coat	243.4 Gal.
Item T-35	Asphaltic Concrete Surface Course Type K (70-80)	39.8 Cu.Yd.
Item E-1	Compacted Subgrade	571.3 Sq.Yd.

SOUTH OF N.Y.C. R.R. NORTHBOUND TEMPORARY CONNECTION "B"

AUGLAIZE COUNTY
AUG-25-5.05

FED. RTE.	STATE		
DIVISION 2	OHIO		

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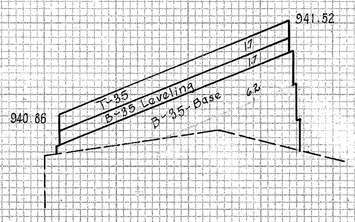
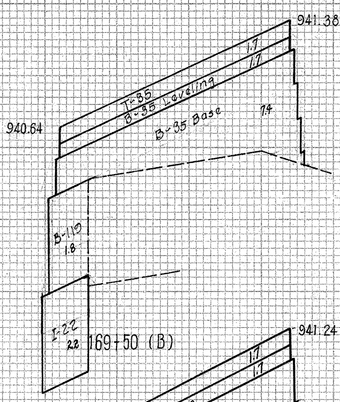
466

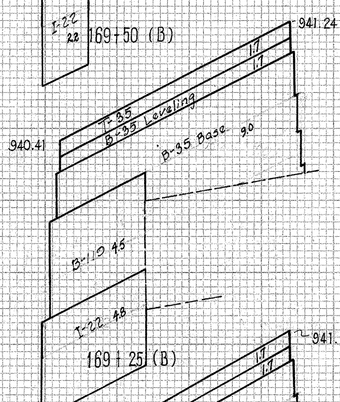
15 10 5 0 5 10 15 15 10 5 0 5 10 15



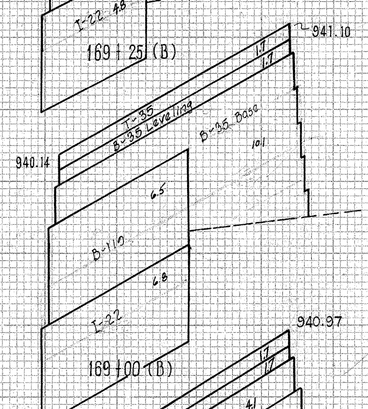
169+75 (B)



169+50 (B)



169+25 (B)



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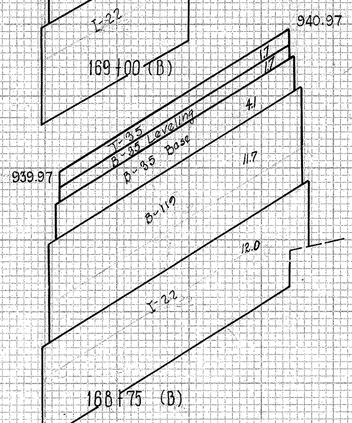

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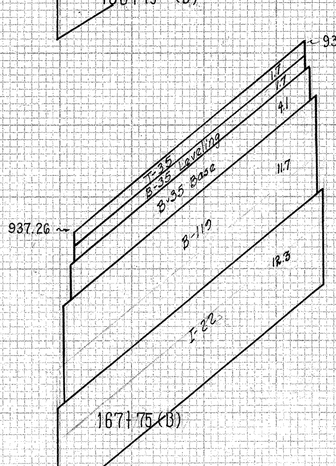
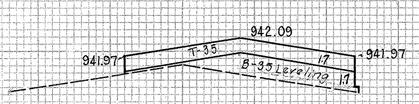


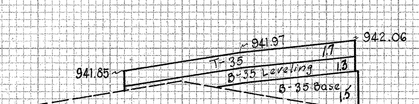
167+75 (B)

Sta. 171+33.60 (B) Begin Feather

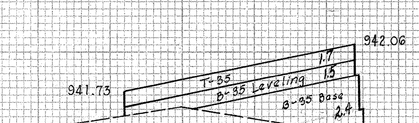
Pavement Quantities Same As Sta 171+25 (B)



171+25 (B)



171+00 (B)



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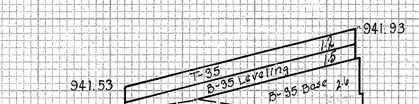

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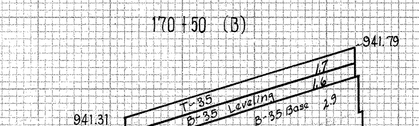

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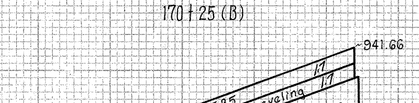

170+00 (B)

SOUTH OF N.Y.C. R.R. NORTH BOUND TEMPORARY CONNECTION "B"

AUGLAIZE COUNTY
AUG-25-5.05

2	OHIO		

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15 10 5 0 5 10 15 15 10 5 0 5 10 15

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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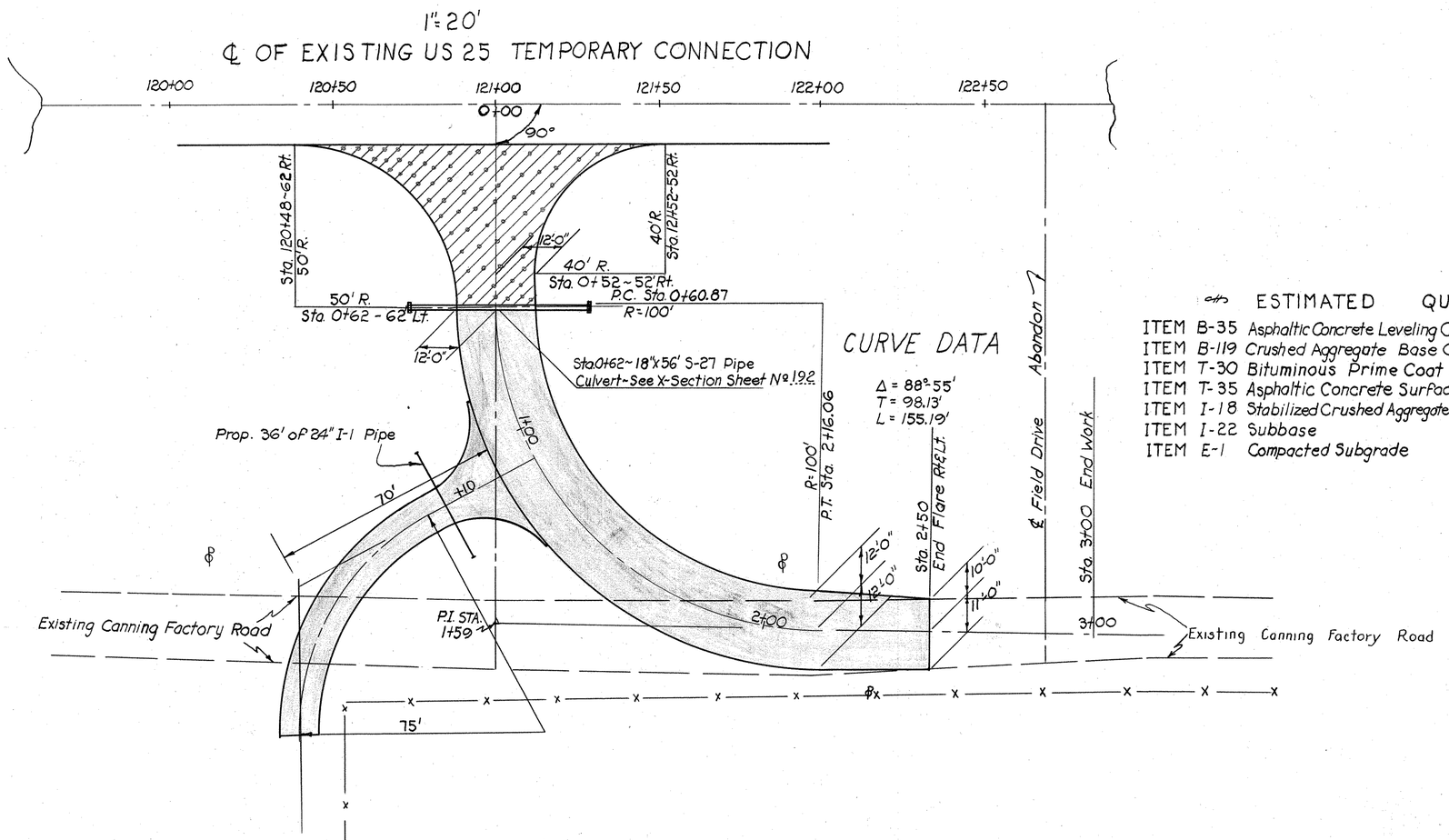
AUGLAIZE COUNTY
AUG.-5.05

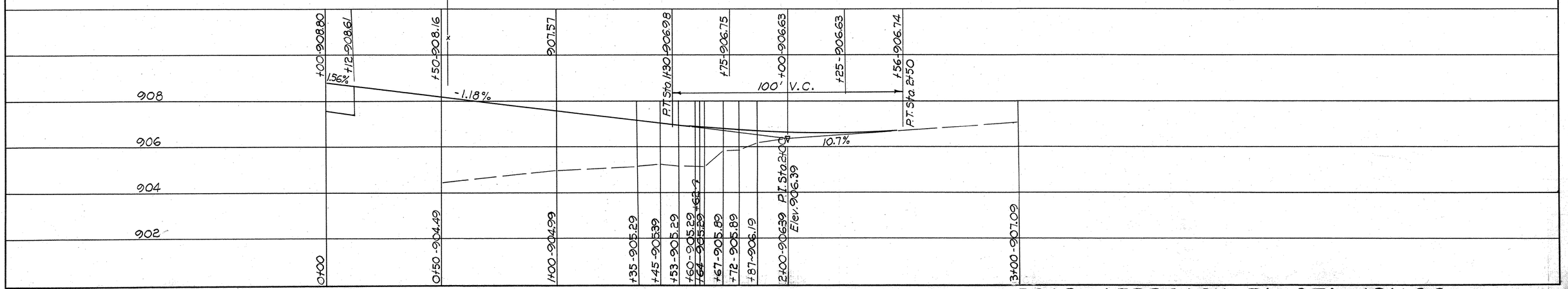
ROAD APPROACH Rt. STA. 121+00

1"=20'



ESTIMATED QUANTITIES

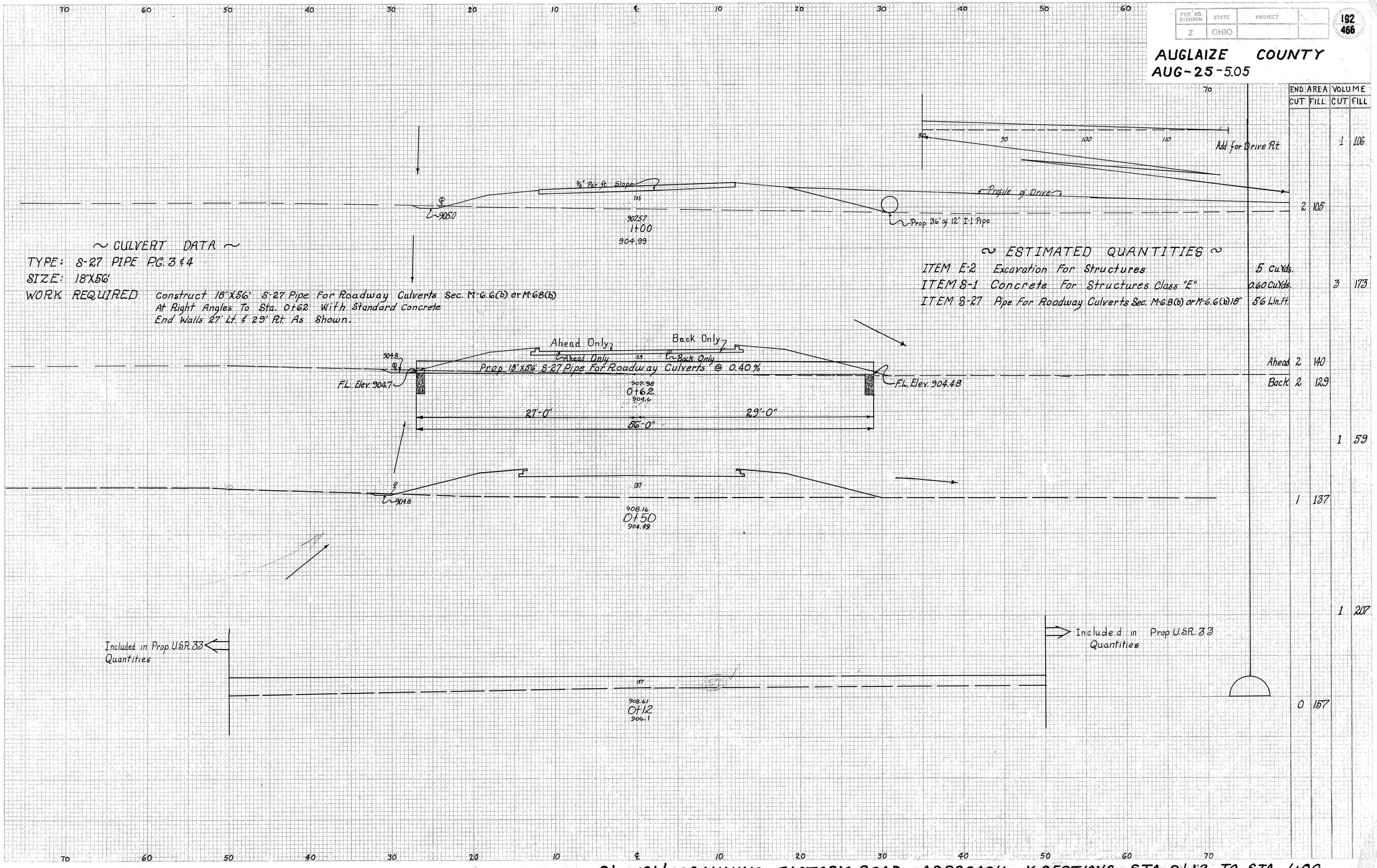
ITEM B-35	Asphaltic Concrete Leveling Course	12.8	Cu.Yds.
ITEM B-119	Crushed Aggregate Base Course	33.3	Cu.Yds.
ITEM T-30	Bituminous Prime Coat	83.8	Gals
ITEM T-35	Asphaltic Concrete Surface Course	8.0	Cu.Yds.
ITEM I-18	Stabilized Crushed Aggregate For Shoulders and Approaches	112.5	Cu.Yds.
ITEM I-22	Subbase	27.5	Cu.Yds.
ITEM E-1	Compacted Subgrade	230.4	Sq.Yds.



ROAD APPROACH Rt. STA. 121+00

FED. RD. DIVISION	STATE	PROJECT		192
2	OHIO			466

AUGLAIZE COUNTY
AUG-25-5.05



~ CULVERT DATA ~

TYPE: S-27 PIPE P.G. 3 & 4
SIZE: 18"X56'
WORK REQUIRED Construct 18"X56' S-27 Pipe For Roadway Culverts Sec. M-6.6(b) or M-6.8(b) At Right Angles To Sta. 0+62 With Standard Concrete End Walls 27' Lt. & 29' Rt. As Shown.

~ ESTIMATED QUANTITIES ~

		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
				1	106
				2	105
ITEM E-2 Excavation For Structures	5 Cu.Yds.				
ITEM S-1 Concrete For Structures Class "E"	0.60 Cu.Yds.			3	173
ITEM S-27 Pipe For Roadway Culverts Sec. M-6.8(b) or M-6.6(b) 18"	5'6 Lin.ft.				
		Ahead 2			
		Back 2	12.9		
				1	59
				1	137
				1	207
				0	157

Sta. 121+00 CANNING FACTORY ROAD APPROACH X-SECTIONS STA. 0+12 TO STA. 1+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
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3+00 End Work
907.09

Back Only

906.74
2+50
906.74

906.63
2+00
906.39

906.84
1+62
905.29

907.12
1+35
905.29

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	0	0		
			21	2
Ahead	22	2		
Back	37	2		
			60	7
	27	5		
			26	24
	10	29		
			8	45
	5	60		
			5	107
Sta 1+00	2	105		

Excavation 126 Cu.Yds
Embankment 730 Cu.Yds
Embankment 115% 840 Cu.Yds

Sta 12+00 CANNING FACTORY ROAD APPROACH X-SECTIONS STA. 1+35 TO STA. 3+00

ROAD APPROACH Rt. STA. 150+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
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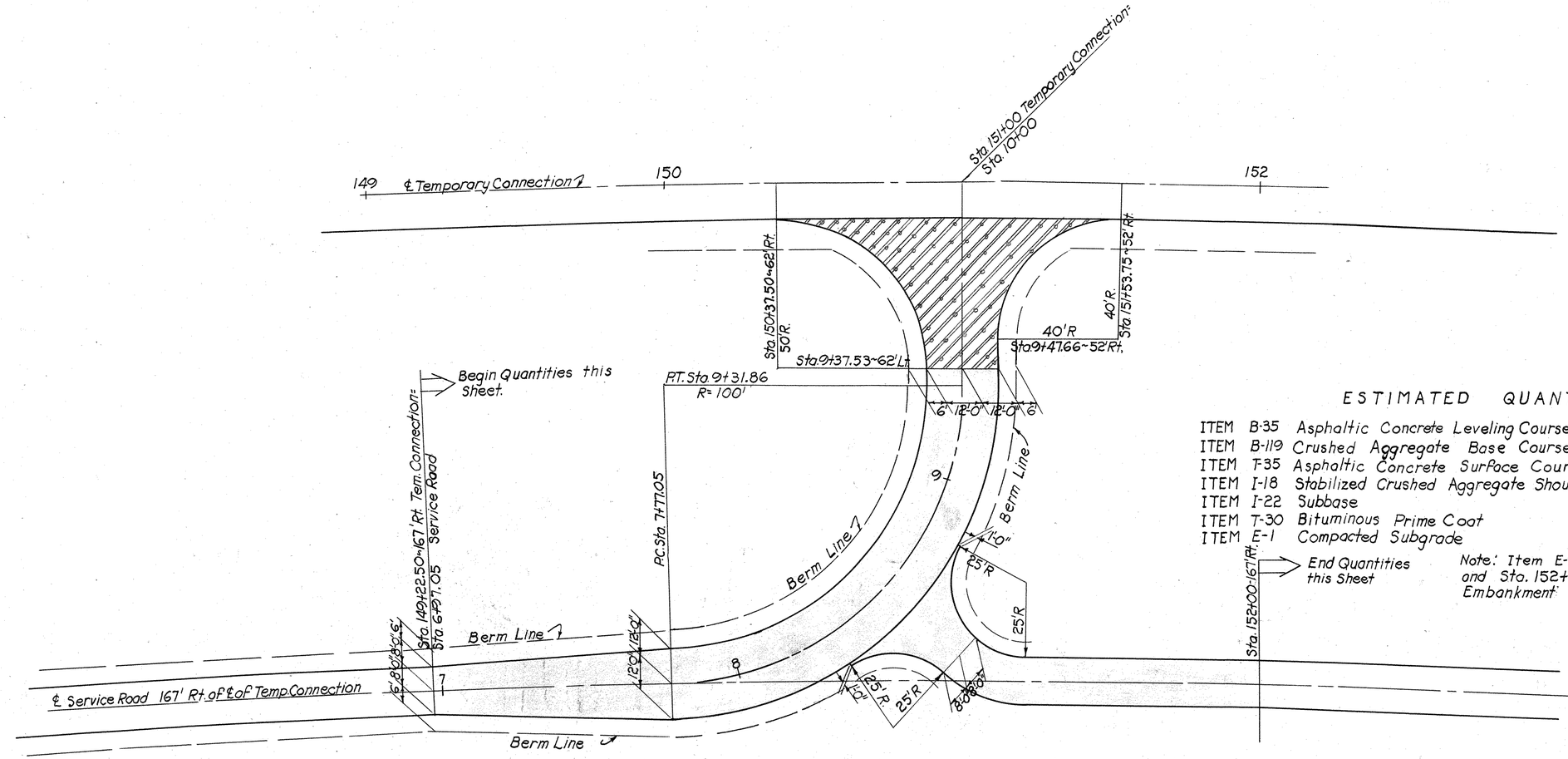
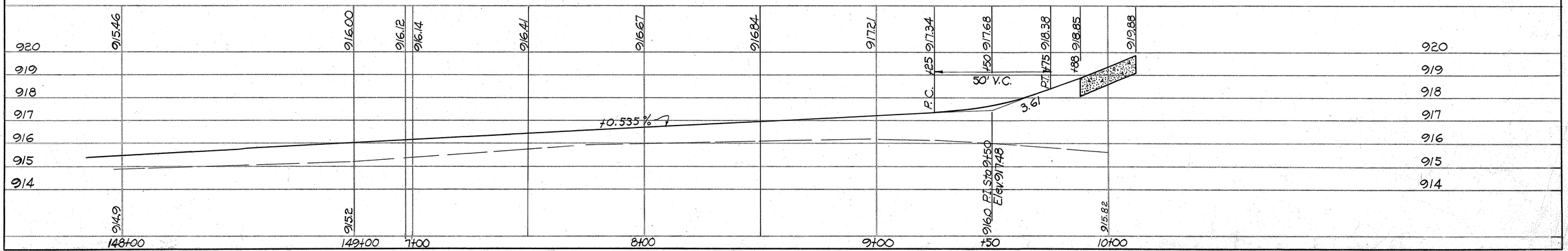


ESTIMATED QUANTITIES

ITEM B-35	Asphaltic Concrete Leveling Course	13.0	Cu.Yds.
ITEM B-119	Crushed Aggregate Base Course	33.7	Cu.Yds
ITEM T-35	Asphaltic Concrete Surface Course	8.1	Cu.Yds
ITEM I-18	Stabilized Crushed Aggregate Shoulders and Approaches	142	Cu.Yds
ITEM I-22	Subbase	27.9	Cu.Yds.
ITEM T-30	Bituminous Prime Coat	85.0	Gal
ITEM E-1	Compacted Subgrade	233.3	Sq.Yd.

End Quantities this Sheet

Note: Item E-1 Roadway Excavation: Between Sta.150+00 and Sta. 152+00 Temporary Connection add 162 Cu.Yds. Embankment.



ROAD APPROACH Rt. Sta. 150+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
AUG-25-5.05

DRAINAGE TABLE

Plan & Profile Sheet No.	Reference No.	Detail Sheet No.	Station From	Station To	SIDE	E-2 Excavation for Structures	E-12 Pipe Removed 15" and Under	E-12 Pipe Removed 15" and Under	E-12 Pipe Removed Over 15"	E-12 Pipe Removed for Storage 15" and Under	E-12 Pipe Removed for Storage Over 15"	I-1 Pipe for Driveways 12"	I-2 Class "A" Storm Sewers Under Pavement and Approaches 24"	I-3 Roadway Drainage 6"	I-3 Roadway Drainage 24"	I-3 Roadway Drainage under Pavt or Appr. 24"	I-5 Pipe Specials for I-3 Roadway Drainage 8"x8"	24"x8"Y	8"x30"	24"x30"	24"x48"	I-16 Inlet Abandon	I-8 No 1-3 Catch Basin	I-8 No 2-3 Catch Basin	L-10 Sodding	I-16 Catch Basins Abandon.	S-1 Concrete for Structures - Class "E"	S-22 Removal of Portions of Exist. Structures	S-27 86" Pipe for Roadway Culverts	Special Expansion Anchor Bolts	Remarks
						Cu.Yd	Lin.	Ft.	Lin.	Ft.		Lin. Ft.	Lin. Ft.	Lin. Ft.		Lin.Ft.	Each						Ea.	Ea.	Sq.Yd.	Ea.	Cu.Yd.	Lump	Lin.Ft.	Ea.	
196	1-D		858+00	860+35	Lt.&Rt.																				475						
197	1-D	350	860+17.5		Lt.&Rt.	45	156						100		42		24		1		1	1	1		1	1		6.6	Lump	48	32	
197	2-D		860+30	860+53	Rt.		36																								
197	3-D		860+30.5	862+00	Rt.										8		144	22			1										
197	4-D		861+47	-	Lt.						20																				
197	5-D		861+47	-	Lt.							38																			
197	6-D		862+04	863+08	Lt.&Rt.			386																		1					
197	7-D		862+92	3+98(C)	Lt.&Rt.								124				8						2								
197	8-D		865+56	-	Lt.					20																					
197	9-D		864+10	870+30	Lt.		892																					0.1			
197	10-D		867+32	-	Lt.																		1								
197	11-D		870+54	-	Lt.		20																								
197	12-D		870+86	-	Rt.						40																				
198	1-D		877+39	-	Rt.		16																								
198	2-D		879+25	-	Lt.							44																			
198	3-D		879+25	-	Rt.							44																			
Totals to U.S.R. 33 Calculations																															
Totals to U.S.R. 25 Drainage Table						45	1120	386	20	60	126		224		50		176	22	1	1	1	1	1	1	3	1	475	1	6.7	Lump	48	32	

DRIVE AND APPROACH TABLE

Plan & Profile Sheet No.	Reference No.	SIDE	Station From	Station To	B-35 Asphaltic Concrete Leveling Course Cu.Yd.	B-35 Asphaltic Concrete Base Course Cu.Yd.	B-119 Crushed Aggregate Base Course Cu.Yd.	I-18 Stabilized Crushed Aggregate Shoulders & Appro. Cu.Yd.	I-22 Subbase Cu.Yd.	T-30 Bituminous Prime Coat @ 0.35 Gal. per Sq.Yd. Gal.	T-35 Asphaltic Concrete Surface Course Cu.Yd.	Remarks
196	1-A	Lt.&Rt.	858+25	859+10	5.6	1.9	5.5	9.0	6.8	6.7	6.6	
197	1-A	Rt.	861+34	-				15.6		35.5	5.6	Dr.& M.B.
197	2-A	Lt.	861+47	-				17.7				Drive
197	3-A	Lt.&Rt.	878+00	878+85	5.6	2.0	6.1	9.0	7.4	6.7	6.5	
197	4-A	Lt.	879+25	-				13.9				Drive
197	5-A	Rt.	879+25	-				11.7				Drive
Totals to U.S.R. 33 Calculations					11.2	3.9	11.6	76.9	14.2	48.9	18.7	

EARTHWORK TABLE

Plan & Profile Sheet No.	Station From	Station To	Excavation Cu. Yd.	Embankment Cu. Yd.	Embankment +15% Cu. Yd.	ROADSIDE IMPROVEMENT L-9 Seeding & Protecting Sq. Yd.
201	858+00	879+60	2238	36699	42204	154 34
Total to U.S.R 33 Calc.			2238	36699	42204	154 34
" " " 25 Table			2238			154 34

EARTHWORK CALCULATIONS

Total Embankment +15% = 42204
Total Excavation Available = 2238
39,966
Net Embankment required for Exist. U.S.R. 33
Forward to U.S.R. 25 Table 39,966 Cu.Yd.

GUARD RAIL TABLE

Plan & Profile Sheet No.	Reference No.	Station From	Station To	SIDE	I-15 Guard Rail - Steel Beam Type "Deep" Curved 31.5' R. Lin. Ft.	Curved 39.5' R Lin. Ft.	Curved 40' R Lin. Ft.	Straight Lin. Ft.	Remarks
197	1-G	7+49.69(D)	8+66.19(D)	Rt.	50.0			75.0	
197	2-G	7+53.69(D)	8+54±(D)	Lt.		25.0		75.0	
197	3-G	5+38±(C)	5+69±(C)	Lt.			62.5		
197	4-G	865+00±	867+00	Lt.				200.0	
197	5-G	864+95	867+20	Rt.				225.0	
197	6-G	868+85	872+10	Lt.				225.0	
197	7-G	5+35±(B)	8+55±(B)	Lt.			62.5	287.5	
197	8-G	870+05	872+05±	Rt.				200.0	
197	9-G	6+27±(A)	8+51±(A)	Lt.		25.0		200.0	
197	10-G	11+21(B)	8+45(B)	Rt.				712.5	
197	11-G	6+32±(A)	6+54±(A)	Rt.	50.0			450.0	
Total to U.S.R. 25 Table					100.0	50.0	125.0	2650.0	

APPROACH SLAB TABLE

Plan & Profile Sheet No.	Station From	Station To	I-7 Reinf. Conc. Approach Slab T= 11½" Sq.Yd	E-1 Compacted Subgrade Sq.Yd.	I-22 Subbase Cu.Yd.	I-18 Stabilized Crushed Agg. for Shoulders & Appr. Cu.Yds.	Remarks
197	866+95.34	867+15.34	53.3	53.3	12.8	3.0	
197	869+90.70	870+10.70	53.3	53.3	12.8	3.0	
Total to U.S.R. 33 Calculations				106.6	25.6	6.0	
Total to U.S.R-25 Table			106.6				

CALCULATIONS

ITEM T-35 ASPHALTIC CONCRETE SURFACE COURSE (70-80) TYPE "A"

From Typical Section No 1 1210.64 Lin. Ft.
1210.64 x 24 x 1.25/12 ÷ 27 = 112.1 Cu.Yd.
From Typical Section No 2 (Estimated) 33.7 Cu.Yd.

From Drive & Approach Table 18.7 Cu.Yd.

Total = 164.5 Cu.Yd.
Total to U.S.R. 25 Calculations 164.5 Cu.Yd.

ITEM B-35 ASPHALTIC CONCRETE LEVELING COURSE (70-80)

From Typical Section No 1 1210.64 Lin. Ft.
1210.64 x 24 x 1.25/12 ÷ 27 = 112.1 Cu.Yd.
From Typical Section No 2 (Estimated) 33.7 Cu.Yd.

From Drive & Approach Table 11.2 Cu.Yd.
Total = 157.0 Cu.Yd.

Total to U.S.R. 25 Calculations 157.0 Cu.Yd.

ITEM B-35 ASPHALTIC CONCRETE BASE COURSE (70-80)

From Typical Section No 1 1210.64 Lin. Ft.
1210.64 x 24.5 x 3/12 ÷ 27 = 274.6 Cu.Yd.
From Typical Section No 2 (Estimated) 77.8 Cu.Yd.
Deduct for Ramp Approaches
1051.0 Lin. Ft. x 3/12 x 3/12 ÷ 27 = - 2.4 Cu.Yd.

From Drive & Approach Table 3.9 Cu.Yd.
Total = 353.9 Cu.Yd.
Total to U.S.R. 25 Calculations 353.9 Cu.Yd.

ITEM T-30 BITUMINOUS PRIME COAT

From Typical Section No 1 1210.64 Lin. Ft.
1210.64 x 25.5 ÷ 9 x 0.35 = 1200.6 Gal.
From Typical Section No 2 (Estimated) 315.7 Gal.
Deduct for Ramp Approaches
1051.0 Lin. Ft. x 9/12 ÷ 9 x 0.35 - 30.7 Gal.

From Drive & Approach Table 48.9 Gal.
Total = 1534.5 Gal.
Total to U.S.R. 25 Calculations 1534.5 Gal.

ITEM B-119 CRUSHED AGGREGATE BASE COURSE

From Typical Section No 1 1210.64 Lin. Ft.
1210.64 x 25.5 x 8/12 ÷ 27 = 762.3 Cu.Yd.
From Typical Section No 2 (Estimated) 136.0 Cu.Yd.
Deduct for Ramp Approaches
1051.0 Lin. Ft. x 9/12 x 8/12 ÷ 27 - 19.5 Cu.Yd.
From Drive & Approach Table 11.6 Cu.Yd.
Total = 892.4 Cu.Yd.

Total to U.S.R 25 Calculations 892.4 Cu.Yd.

ITEM I-22 SUBBASE

From Typical Section No 1 1210.64 Lin. Ft.
1210.64 x 26.5 x 8/12 ÷ 27 = 792.1 Cu.Yd.

From Typical Section No 2 (Estimated) 74.9 Cu.Yd.
From Drive & Approach Table 14.2 Cu.Yd.
From Approach Slab Table 25.6 Cu.Yd.

Deduct for Ramp Approaches
1051.0 Lin. Ft. x 1.25 x 8/12 ÷ 27 32.4 Cu.Yd.
Total = 874.4 Cu.Yd.
Total to U.S.R. 25 Calculations 874.4

ITEM I-18 STABILIZED CRUSHED AGG. SHOULDERS & APPR.

From Typical Section No 1 1210.64 Lin. Ft.
1210.64 x 4 x 2 x 6/12 ÷ 27 179.4 Cu.Yd.

From Typical Section No 2 364.0 Lin. Ft.
364 x 4 x 2 x 6/12 ÷ 27 53.9 Cu.Yd.
From Drive & Approach Table 76.9 Cu.Yd.
From Appr. Slab Table 6.0 Cu.Yds.
Deduct for Ramp & Drive Approaches
1060.0 Lin. Ft. x 4 x 6/12 ÷ 27 = - 78.5 Cu.Yd.

Deduct for Base Course Projections
[2(1210.64 + 364.0) ÷ 3] x .0173 yd² = - 16.2 Cu.Yd.

Total = 219.5 Cu.Yd.

Total to U.S.R. 25 Calculations 219.5 Cu.Yd.

ITEM E-1 COMPACTED SUBGRADE

From Typical Section No 1 1210.64 Lin. Ft.
1210.64 x 24 ÷ 9 = 3226.4 Sq.Yd.

From Approach Slab Table 106.6 Sq.Yd.
Total = 3333.0 Sq.Yd.
Total to U.S.R. 25 Calculations 3333.0 Sq.Yd.

ITEM E-11 WATER

From Roadway Earthwork Table 36699 Cu.Yd.
From I-18 Calculations 219.5 Cu.Yd.
From B-119 " 892.4 Cu.Yd.
From I-22 " 874.4 Cu.Yd.

Total = 38685.3 Cu.Yd.
38,685.3 x 5 ÷ 1000 193.4 M. Gals.

Total to U.S.R. 25 Calculations 193.4 M.Gal.

ITEM I-9 STONE UNDERDRAIN No 2

Estimated 570 Lin. Ft. of stone underdrains to be placed approximately 50' apart on each side as directed by the Engineer.

Total to U.S.R. 25 Calculations 570 Lin. Ft.

ITEM L-9 COMMERCIAL FERTILIZER (10-6-4)

From Roadside Improvement Table = 15434 Sq. Yd.
From Drainage Table (L-10 Sodding) = 475 Sq. Yd.
Total = 15909 Sq. Yd.

15909 x 8/1000 x 20/2000 = 1.43 Tons.

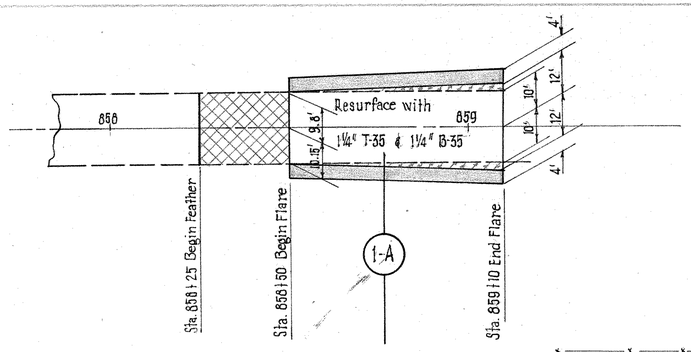
Total to U.S.R. 25 Calculations 1.43 Tons

TABLES AND CALCULATIONS (EXIST U.S.R.33)

RTE. NO. DIVISION	STATE	PROJECT	
2	OHIO		

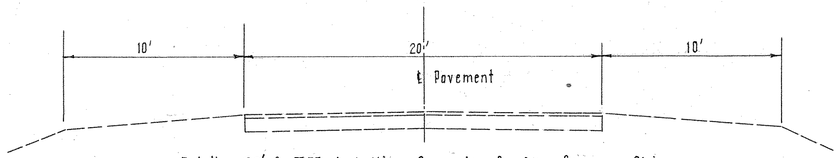
196
466

AUGLAIZE COUNTY
AUG-25-5.05



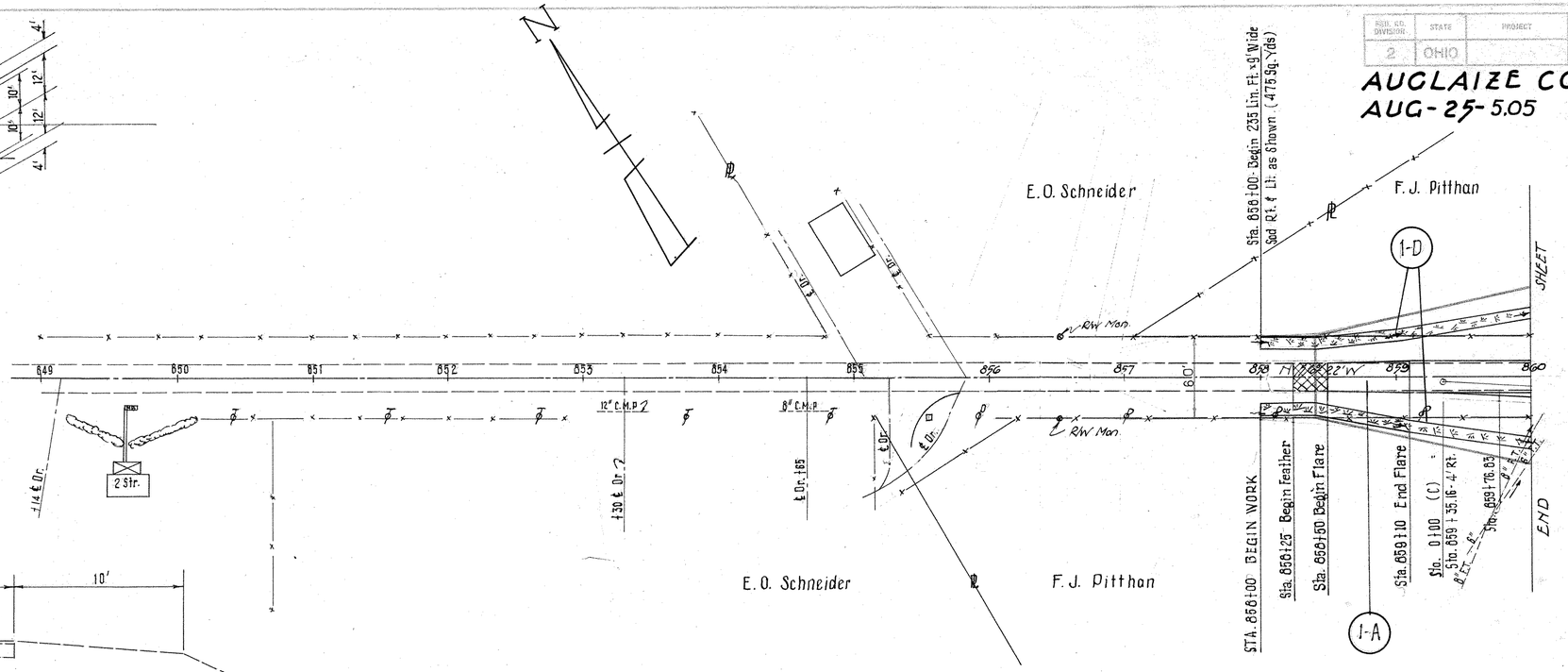
ESTIMATED QUANTITIES

ITEM	T-35	Asphaltic Concrete Surface Course	6.6 Cu. Yds.
ITEM	B-35	Asphaltic Concrete Leveling Course	5.6 Cu. Yds.
ITEM	B-35	Asphaltic Concrete Base Course	1.9 Cu. Yds.
ITEM	T-30	Bituminous Prime Coat	6.7 Gals.
ITEM	B-119	Crushed Aggregate Base Course	5.5 Cu. Yds.
ITEM	1-22	Subbase	6.8 Cu. Yds.
ITEM	1-18	Stabilized Crushed Aggregate Shoulders & App.	9.0 Cu. Yds.

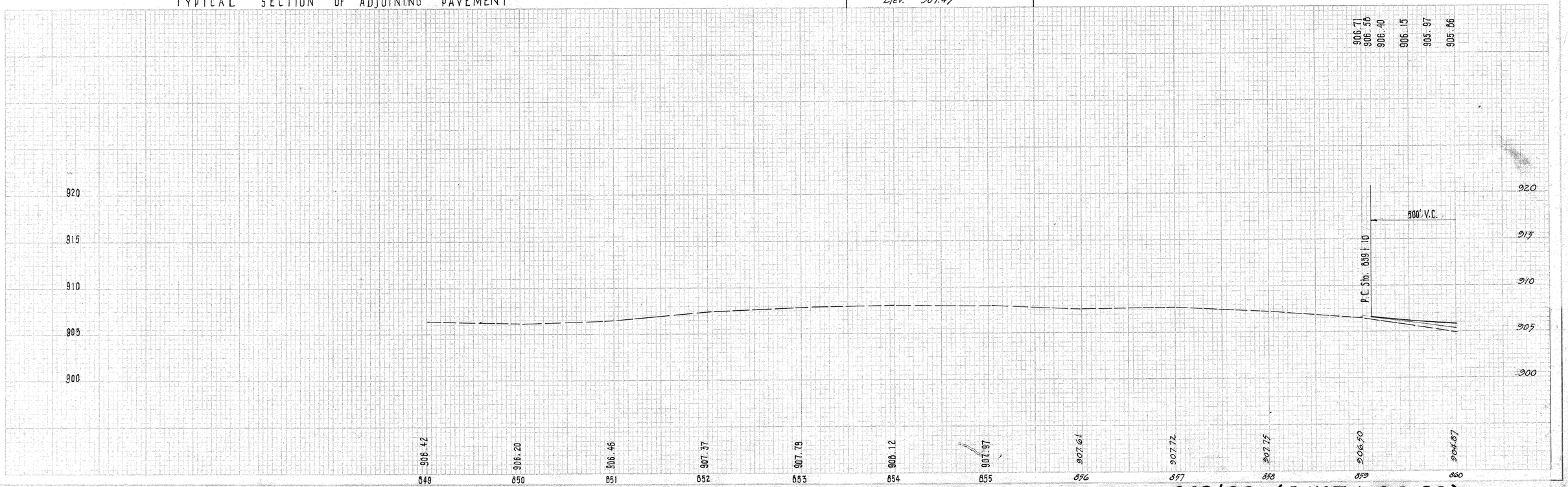


Existing 20' of T-35 Asphaltic Concrete Surface Course on Plain Concrete Pavement

TYPICAL SECTION OF ADJOINING PAVEMENT



BENCH MARK
B.M. RR Spike in ϕ 23' Rt. Sta. 855+92
Elev. 907.45



PLAN & PROFILE STA. 856+00 TO STA. 860+00 (EXIST. U.S.R. 33)

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

197
466

AUGLAIZE COUNTY
AUG-25-5.05

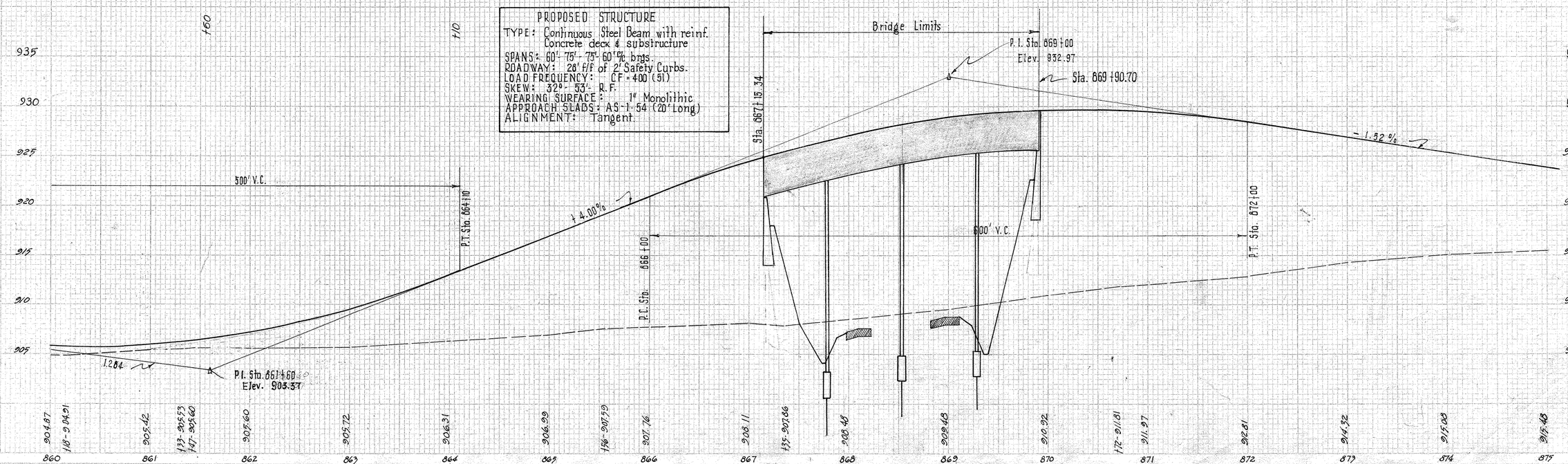
N

Cor. Post Capped Nail
Sta. 866+00 Exist. U.S.R. 33
48.92'
103.32'
32.02'
Capped Nail
Capped Nail

Sta. 660+39 - End Sod Rt & Lt.
4-D
E-12 Pipe Removed for Storage
2-A
5-D
Prop. 38' of 12" 1-1 Pipe
14.78 Dr.
63' Gate
Ex. 16"CMP
Ex. NC Inlet
Prop. 24" 1-2 Under Pave
Sta. 862+92 - 50' Lt.
1-G
Plug with 0.1 Cu. Yd. of Concrete Class E
Sta. 863+42.47
Sta. 863+62.47 -12' Rt.
Sta. 864+18.89 (D) - 40' Rt.
Sta. 865+22.04 - 40' Lt. = Sta. 8+28.69 (D) - 56' Lt.
Sta. 864+66.04 U.S.R. 33 = Sta. 0+76.69 (D)
F. J. Pitthan
2-G
E-12 Pipe Removed
9-D
E-12 Pipe Removed
Abandon
4-G
6-D
E-12 Pipe Removed for Storage
Gate
Ex. 12"CMP
Inlet
Sta. 865+22.22 - 48' Rt.
1-2-A. C.B.
P.I. Sta. 4+58.54 (C) = Sta. 863+93.17 - 25' Rt.
Sta. 336+19.12
Sta. 866+53.02
Abandon Inlet
5-G
10-D
F. J. Pitthan
7-G
11-D
E-12 Pipe Removed
6-G
Abandon
Capped Nail in Cor. Post
Sta. 670+00 Exist. U.S.R. 33
Capped Nail
Capped Nail
C.S. Sta. 4+39.27 (B)
P.I. Sta. 4+39.54 (B) = Sta. 873+67.28 Lt.
Sta. 4+16.77 (B)
Sta. 31+66.54 - 8' Lt.
Sta. 31+66.54 - 10' Lt.
Sta. 4+25 (B) 15" S. 27 Pipe Structure See Detail Sheet No. 352
10-G
1-2A Catch Basin
Gate
Sta. 872+40 U.S.R. 33 = Sta. 0+76.69 (A) Sta. 871+64.46' Rt. = Sta. 8+28.69 (A) 56' Lt.
E-12 Pipe Removed for Storage
Abandon
8-G
9-G
Sta. 8+27± (A) Lt. Back, Prop. Guard Rail Included Prop. U.S.R. 25 Quant.
12-D
Sta. 872+66.00 - 25' Rt.
Sta. 8+24.69 (A) - 48' Rt.
11-G
Sta. 6+32± (A) Rt. Back, Prop. Guard Rail Included Prop. U.S.R. 25 Quantities.
1-D
Begin 24" 1-3 Pipe Sta. 660+30 Lt. 896.1
2-D
E-12 Pipe Removed Connect Exist. 5'-6" Pipe
3-D
Prop. 24" 1-3 Pipe 22½° 8" Wye & 8' of 8" 1-3 Pipe
For Details & Quantities See Sheet No. 350
1-A
2 Str. Fr.
End 24" 1-3 Pipe Sta. 862+00 - 68' Rt. ± 800.5
Sta. 862+05 Begin Full Depth Pavement.
E-12 Pipe Removed
6-D
Abandon C.B.
Sta. 3+98 (C) - 39' Rt. 1-8 No. 1-3 C.B. ± Grade 902.0'; ± 24" 698.20'
4 of 24" 1-3 Pipe
7-D
Sta. 44+26.15' (C) Pipe Culv.
Sta. 44+66.77' (C)
C.S. Sta. 4+89.27 (C)
3-G
Sta. 6+16.77 (C)
Sta. 1+66.77 (C)
T.S. Sta.
Stone Pad
5'x5' Box Culvert
24" Conc. Tile
Sta. 660+39 - End Sod Rt & Lt.
Sta. 660+30 ± 896.1
Sta. 660+00 - 68' Rt. ± 800.5
Sta. 862+92 - 50' Lt.
Sta. 862+82.47
Sta. 863+62.47 -12' Rt.
Sta. 864+18.89 (D) - 40' Rt.
Sta. 865+22.04 - 40' Lt. = Sta. 8+28.69 (D) - 56' Lt.
Sta. 864+66.04 U.S.R. 33 = Sta. 0+76.69 (D)
Sta. 865+22.22 - 48' Rt.
Sta. 872+40 U.S.R. 33 = Sta. 0+76.69 (A) Sta. 871+64.46' Rt. = Sta. 8+28.69 (A) 56' Lt.
Sta. 872+66.00 - 25' Rt.
Sta. 8+24.69 (A) - 48' Rt.
Sta. 873+45.57
Sta. 873+63.57
Sta. 874+03.57 - 10' Lt.
Sta. 6+32± (A) Rt. Back, Prop. Guard Rail Included Prop. U.S.R. 25 Quantities.
BEGIN
SHEET
SHEET
END

PROPOSED STRUCTURE

TYPE: Continuous Steel Beam with reinf. Concrete deck & substructure
SPANS: 60'- 75'- 75'- 60'± brgs.
ROADWAY: 28' f/f of 2' Safety Curbs.
LOAD FREQUENCY: CF = 400 (51)
SKEW: 32°- 53'- R.F.
WEARING SURFACE: 1" Monolithic
APPROACH SLABS: AS-1-54 (20' Long)
ALIGNMENT: Tangent.



PLAN & PROFILE STA. 860+00 TO STA. 875+00 (EXIST. U.S.R. 33)

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

198
466

AUGLAIZE COUNTY
AUG-25-5.05

F.J. Pitthan

Resurface with 1¼" T-35 & 1¼" B-35

Sta. 870+00 Begin Flare

Sta. 870+60 End Flare

Sta. 870+85 End Feather

Prop. 44' of 12" I-1 Pipe

Rtw'Mon.

Gate

Moved

Sta. 877+00 (B) = Sta. 877+70.68 - 4' Lt.

Sta. 877+29.21

132 ℄ DC

T.S. Sta. 1166.77 (B)

2700 (B)

1100 (B)

N 56° 22' W

14 FT.

℄ of Exist. U.S.R. 33

E-12 Pipe Removed

Moved

139 ℄ DC

Sta. 877+31 End Full Depth Pavement

Sta. 878+60 END WORK

℄ Cemetery Rd.

F.J. Pitthan

10'

20'

10'

℄ Pavement

Existing 2"± of T-35 Asphaltic Concrete Surface Course on Plain Concrete Pavement

TYPICAL SECTION OF ADJOINING PAVEMENT

ESTIMATED QUANTITIES

ITEM T-35	Asphaltic Concrete Surface Course	6.5	Cu. Yds.
ITEM B-35	Asphaltic Concrete Leveling Course	5.6	Cu. Yds.
ITEM B-35	Asphaltic Concrete Base Course	2.0	Cu. Yds.
ITEM T-30	Bituminous Prime Coat	6.7	Gals.
ITEM B-119	Crushed Aggregate Base Course	6.1	Cu. Yds.
ITEM I-22	Subbase	7.4	Cu. Yds.
ITEM I-18	Stabilized Crushed Aggregate Shoulders & App.	9.0	Cu. Yds.

BENCH MARK
B.M. RR Spike in ℄ 29' Rt
Sta 880+55 Elev. 916.26

923.65 923.09 922.33 921.95 921.56 921.16 920.77 920.35 919.95 919.54 919.11

930 925 920 915 910

1.52%

P.I. Sta. 877+00 Elev. 920.61

1.70%

P.C. Sta. 876+00

200' V.C.

P.T. Sta. 876+00

915.48 915.89 917.78 917.98 918.90 917.20 915.92 915.09 914.70 914.43 914.80 914.61 914.56 914.66 914.82

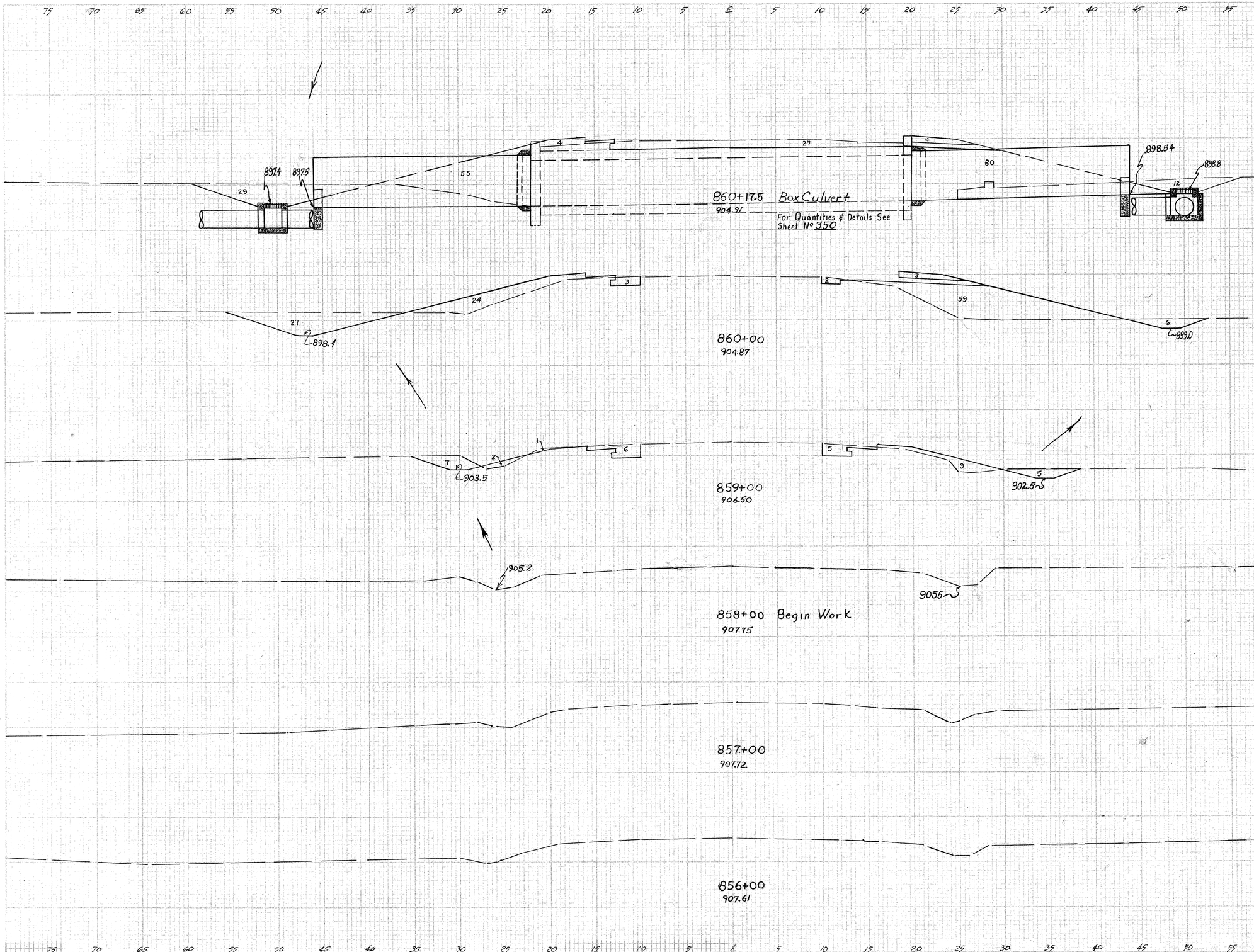
875 876 877 878 879 880 881 882 883 884 885 886 887 888

PLAN & PROFILE STA. 875+00 TO STA. 886+00 (EXIST U.S.R. 33)

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

199
466

AUGLAIZE COUNTY
AUG-25-5.05



End Area		Volume	
Cut	Fill	Cut	Fill
68	143		
		34	74
38	86		
		115	180
24	11		
		44	20
0	0		

U.S. ROUTE 33 X-SECTIONS STA 856+00 TO STA 860+17

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

200
466

AUGLAIZE COUNTY
AUG-25-5.05

Included in Ramp "D" Quantities Ahead Only

Included in Ramp "C" Quantities

201

258

3

902.5

312.98
864+00
906.31

Included in Ramp "C" Quantities

164

3

901.3

909.61
863+00
905.72

Included in Ramp "C" Quantities Ahead Only

5

37

10

901.0

907.20
862+00
905.60

6

48

903.5

See Ramp

900.5

Ahead Only on Ramp Quantities

Prop. Profile of Drive 7% Grade

900.85

Prop. 38' of 12" I-1 Pipe

906.51
861+47 Fld. Dr. Lt.
905.60

Prop Profile of Dr.

906.35
861+33 Res. Dr. Rt.
905.53

Proposed 24" I-3 Pipe

899.5

28

20

8

900.7

12

904.1

906.05
861+00
905.42

Proposed 24" I-3 Pipe

898.4

5.05 - 13.29

	End Area Cut	End Area Fill	Volume Cut	Volume Fill
Ahead	0	258		
Back	3	459		
			11	1154
	3	164		
			33	372
Ahead	15	37		
Back	15	91		
Add for Drive Lt.			1	45
			94	228
Add for Drive Rt.			4	0
			36	32
			150	267
Sta 860+17.5			69	143

U.S. ROUTE 33 X-SECTIONS STA 861+00 TO STA 864+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

201
466

AUGLAIZE COUNTY
AUG-25-5.05

Zero Section = Sta 867+50

Sta 867+25 = Sta 867+14.74 Ahead Only

Back Only

Ahead Only

339

1174

924.95
867+14.74
908.00

Back of Abutment
To be Used for Earthwork Only

866+95

1440

2:1

906.0

924.51
867+00
908.11

941

905.6

Included in Ramp "D" Back Only

920.97
866+00
~~907.75~~

237

489

Included in Ramp "C" Quantities

917.85
865+22
907.16

508

Included in Ramp "D" Quantities

Included in Ramp "C" Quantities

916.97
865+00
906.99

Excavation 2238 Cu.Yd.
Embankment 36699 Cu.Yd.
Embankment +15% 42204 Cu.Yd.

	End Area Cut	End Area Fill	Volume Cut	Volume Fill
Sta 867+50	0	0		
			0	544
Sta 867+25	0	1174		
			0	446
Ahead	0	1174		
Back	0	1513		
			1	806
	5	1440		
			41	4410
	17	941		
			27	2408
Ahead	2	726		
Back	2	489		
			1	406
	0	508		
			0	1419
Ahead Sta 864+00	0	258		

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 E 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

EXISTING US ROUTE 33 X-SECTIONS STA 865+00 TO STA 868+00

FED. RD. DIVISION	STATE	PROJECT		202
2	OHIO			466

AUGLAIZE COUNTY
AUG-25-5.05

Included in Ramp "B" Quantities

Included in Ramp "A" Ahead Only

772

432

928.41
872+00
912.81

1449

910.0

908.5

908.6

929.47
871+00
911.97

1451

908.0

907.2

929.61
870+72
911.81

1533

907.5

905.8

929.61
870+00
910.92

Ahead Only

334

Back Only

1270

929.58
869+91.30
910.78

Back of Abutment
To be Used for Earthwork Only

907.5

905.7

Sta 869+81.5 = Sta 869+91.30 Back Only

Sta 869+50 = Zero Section

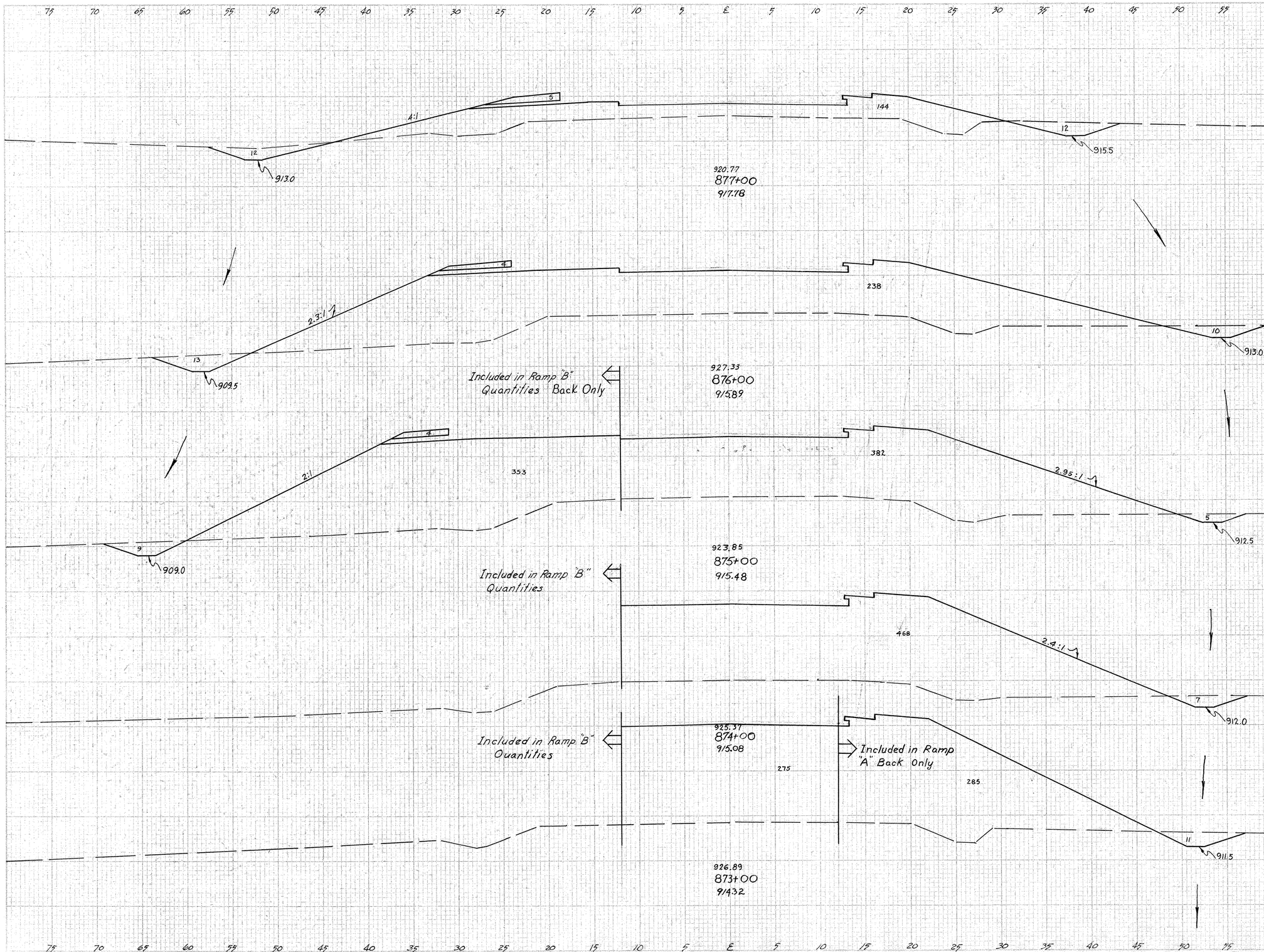
	End Area		Volume	
	Cut	Fill	Cut	Fill
Ahead	0	772		
Back	10	1204		
			93	4913
	40	1449		
			93	1504
	139	1451		
			414	3979
	172	1533		
			452	4180
Ahead	167	1604		
Back	167	1270	61	461
Sta 869+81.5	167	1270	97	741
Sta 869+50	0	0		

EXISTING U.S. ROUTE 33 X-SECTION STA 870+00 TO STA 872+00

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

203
466

AUGLAIZE COUNTY
AUG-25-5.05



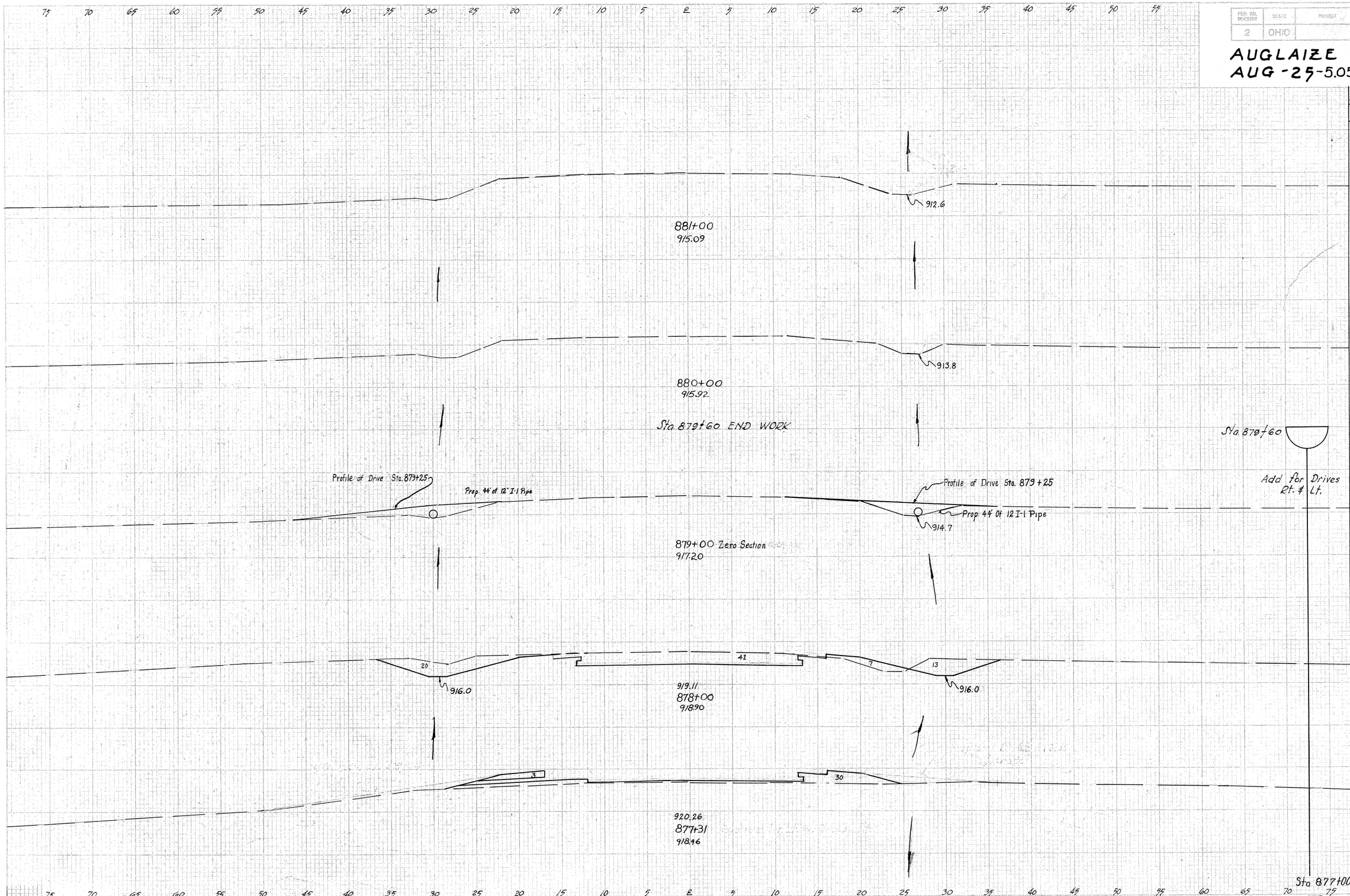
	End Area Cut	End Area Fill	Volume Cut	Volume Fill
	24	149		
			87	724
	23	242		
			69	1817
Ahead	14	739		
Back	5	382		
			22	1574
	7	468		
			33	1904
Ahead	11	560		
Back	0	275		
			0	1939
Ahead	0	772		

Sta 872+00

EXISTING U.S. ROUTE 33 X-SECTIONS STA 873+00 TO STA 877+00

FED. RD. DIVISION	STATE	PROJECT		204 466
2	OHIO			

AUGLAIZE COUNTY
AUG-25-5.05



	End Area		Volume	
	Cut	Fill	Cut	Fill
Sta 879+60				
Add for Drives Rt. & Lt.			2	15
	0	0		
			139	13
	75	7		
			96	51
	0	33		
			14	105
Sta 877+00	24	149		

EXISTING U.S. ROUTE 33 X-SECTIONS STA 877+31 TO STA 881+00

EXIST. U.S.R. 33 INTERCHANGE TABLES And CALCULATIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
AUG.-25-5.05

DRAINAGE TABLE

Sheet Nº	Reference Nº	Detail Sheet Nº	Ramp Nº	Side	E-2 Excavation for Structures	S-27 Pipe for Roadway Culverts Sec M-6.4(d)	I-5 Pipe Special	I-8 Std. Nº 1-2A Catch Basin	I-10 Dumped Rock Fill	L-10 Sodding	S-1 Concrete for Structures Class "E"	S-27 Pipe for Roadway Culverts Sec M-6.8(b) or Sec M-6.6(b)				Remarks
							For S-27 Pipe 75"x30"					Lin. Ft.				
					Cu.Yd.	Lin. Ft. 15"	Each	Each	Cu.Yd.	Sq.Yd.	Cu.Yd.	15"	21"	27"	30"	
207	1-D	351	Ramp "A"	℄	25						0.94			98		Structure
210	1-D	352	Ramp "B"	℄	9	28	2	1	5		0.26	36				Structure
210	2-D		Ramp "B"	Lt Rt						500						
210	3-D	214	Ramp "B"	℄	53						1.02				78	Structure
216	1-D	218	Ramp "C"	℄	36						0.52	98				Structure
216	2-D	353	Ramp "C"	℄	7			1			0.26	56				Structure
221	1-D	222	Ramp "D"	℄	27						0.72		66			Structure
Total To Exist 33 Interchange Calculation										500						
Total To US 25 Tables					157	28	2	2	5	500	3.72	190	66	98	78	

PAVEMENT QUANTITIES TABLE

Sheet Nº	Ramp Nº	B-33 Bituminous Macadam Base Course	B-35 Asphaltic Concrete Leveling Course	B-35 Asphaltic Concrete Base Course	B-119 Crushed Aggregate Base Course	E-1 Compacted Subgrade	I-12 Standard Concrete Curb Type 2-A	I-18 Stabilized Crushed Aggregate for Shoulders & Approaches	I-21 Portland Cement Conc. Median Pavement as per plan	I-22 Subbase	T-30 Bituminous Prime Coat	T-31 Bituminous Surface Treatment, Bituminous Material	T-31 Bituminous Surface Treatment, Aggregate	T-35 Asphaltic Concrete Surface Course	T-71 Reinforced Portland Cement Concrete Pavement	Remarks
		Sq.Yd.	Cu.Yd.	Cu.Yd.	Cu.Yd.	Sq.Yd.	Lin.Ft.	Cu.Yd.	Sq.Yd.	Cu.Yd.	Gal	Gal	Cu.Yd.	Cu.Yd.	Sq.Yds.	
207	Ramp "A"	481	0.1	0.1	0.3	1404	91	61		446	0.5	120.0	3.8	0.1	1404	
211	Ramp "B"	1162				3299	140	145	22	1056		290.5	9.3		3299	
216	Ramp "C"	1186				3393	140	148	22	1088		296.5	9.5		3393	
221	Ramp "D"	481	0.1	0.1	0.3	1404	91	61		446	0.5	120.0	3.8	0.1	1404	
Total To Interchange Calculation					0.6			415		3036						
Total To U.S. 25 Calculations		3310	0.2	0.2	0.6	9500	462	415	44	3036	1.0	827.0	26.4	0.2	9500	

EARTHWORK TABLE

Sheet Nº	Ramp Nº	Excavation	Embankment	Embankment + 15%	ROAD SIDE IMPROVEMENT Seeding and Protection
		Cu.Yd	Cu.Yd.	Cu.Yd	Sq.Yd.
209	Ramp "A"	271	16,281	18,723	8,026
213	Ramp "B"	1627	19,956	22,949	14,993
219	Ramp "C"	2183	19,130	22,000	15,797
223	Ramp "D"	1067	5,647	6,494	8,424
Total To Earthwork Calculations		5148	61,014	70,166	47,240
Total To U.S. 25 Tables		5148			47,240

EARTH WORK CALCULATIONS

Embankment + 15% = 70,166 Cu.Yd.
Excavation Removeable to reduce borrow 5,148 Cu.Yd.
Total = 65,018 Cu.Yd.

Total Borrow required for Exist U.S. 33 Interchange Forwarded to U.S. 25 Tables = 65,018 Cu.Yd.

ITEM E-11 WATER

From Earthwork Table = 61,014.0 Cu.Yd.
From Pavement Quantities Table Item B-119 0.6 Cu.Yd.
Item I-18 415.0 Cu.Yd
Item I-22 3,036.0 Cu.Yd.
Total 64,465.6 Cu.Yd.

64,465.6 X 5 Gal per Cu.Yd. ÷ by 1000 = 322.3 M.Gal
Total To U.S. 25 Calculations 322.3 M.Gal.

ITEM-L-9 COMMERCIAL FERTILIZER (10-6-4)

From Roadside Improvement Table = 47,240 Sq.Yds.
From Drainage Table-10 Sodding = 500 Sq.Yds.
Total = 47,740 Sq.Yds.

47,740 Sq.Yds. X 9/1000 X 8%2000 = 4.30 Tons
Total To U.S. 25 Calculations 4.30 Tons

EXISTING U.S.R. 33 & PROPOSED U.S.R. 25 INTERCHANGE

SCALE: 1" = 100'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
AUG - 25 - 5.05

N

N.Y.C. R.R.

Begin R/W Fence ℄ 85

68°-33'-30"

S.T. Sta. 17 ℄ 37.74 (C)

R/W

C.S. Sta. 14 ℄ 37.74 (C)

S.C. Sta. 12 ℄ 95.41 (C)

Fence

℄ of Ramp "C"

T.S. Sta. 9 ℄ 99.41 (C)

S.T. Sta. 7 ℄ 29.27 (C)

C.S. Sta. 4 ℄ 09.27 (C)

S.C. Sta. 4 ℄ 16.77 (C)

Begin R/W Fence ℄ 24

End R/W Fence ℄ 44

Sta. 0 ℄ 00 (C)

End R/W Fence ℄ 40

Begin R/W Fence ℄ 40

℄ of Existing U.S.R. 33

℄ of Ramp "D"

S.T. Sta. 6 ℄ 17.86 (D)

C.S. Sta. 4 ℄ 17.86 (D)

S.C. Sta. 3 ℄ 66.74 (D)

T.S. Sta. 1 ℄ 66.87 (D)

Sta. 0 ℄ 00 (D)

End R/W Fence ℄ 70

5030*
4180**

℄ of Survey Prop. U.S.R. 25

4750*
3440**

321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353

Begin R/W Fence ℄ 82

Sta. 323 ℄ 10.07

℄ of Survey Prop. U.S.R. 25

Sta. 0 ℄ 00 (A)

T.S. Sta. 1 ℄ 66.87 (A)

S.C. Sta. 3 ℄ 66.87 (A)

C.S. Sta. 4 ℄ 17.98 (A)

S.T. Sta. 6 ℄ 17.98 (A)

℄ of Ramp "A"

Sta. 338 ℄ 19.12 U.S.R. 25 =
Sta. 866 ℄ 53.02 Exist U.S.R. 33

S.C. Sta. 4 ℄ 09.27 (B)

S.T. Sta. 7 ℄ 29.27 (B)

℄ of Ramp "B"

S.T. Sta. 9 ℄ 95.41 (B)

S.C. Sta. 12 ℄ 95.41 (B)

C.S. Sta. 14 ℄ 37.74 (B)

S.T. Sta. 17 ℄ 37.74 (B)

End R/W Fence ℄ 51

Note: Traffic Count shown is 24 hr. design count based on
1955 Traffic Count to the year 1975
** Without U.S.R. 33 Bypass built.
* With U.S.R 33 Bypass built.

℄ of Existing U.S.R. 33

End R/W Fence ℄ 00

Sta. 0 ℄ 00 (B)

T.S. Sta. 1 ℄ 66.27 (B)

S.C. Sta. 4 ℄ 16.77 (B)

C.S. Sta. 4 ℄ 09.27 (B)

Begin R/W Fence ℄ 00

EXISTING U.S.R. 33 & PROPOSED U.S.R. 25 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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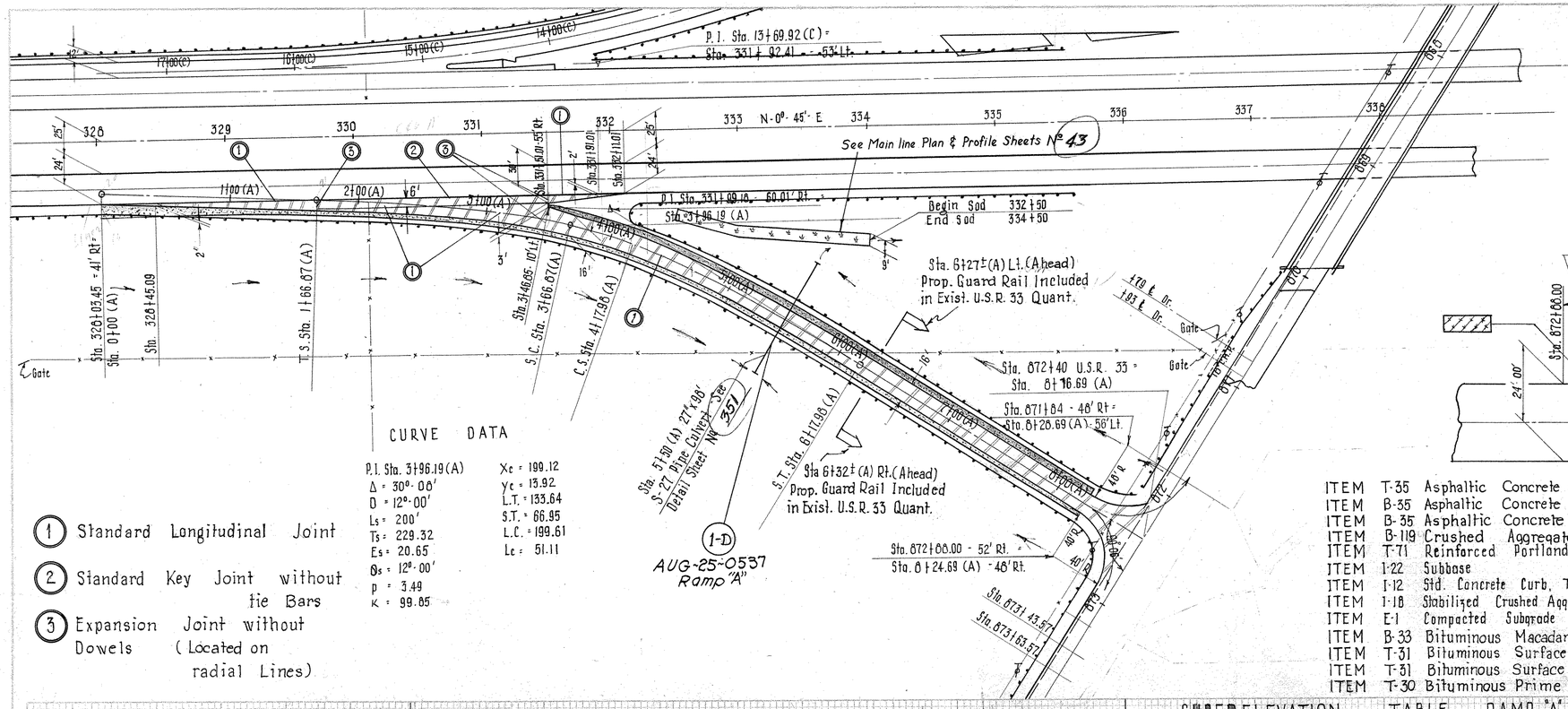
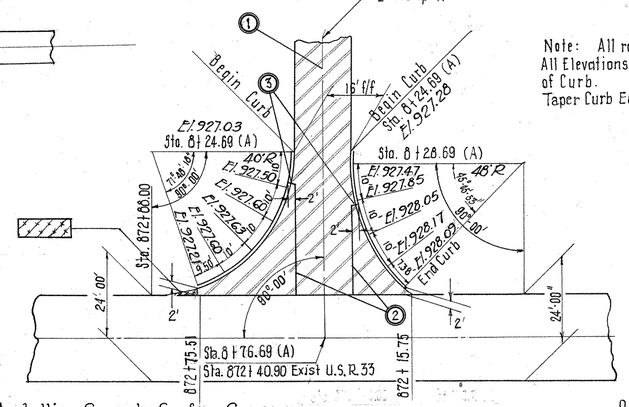
AUGLAIZE COUNTY
AUG-25-5.05





Note: All radii to Face of Curb.
All Elevations at Back of Curb, Top of Curb.
Taper Curb Ends 6" to 2' in 10' ft.

(1) Standard Longitudinal Joint

(2) Standard Key Joint without tie Bars

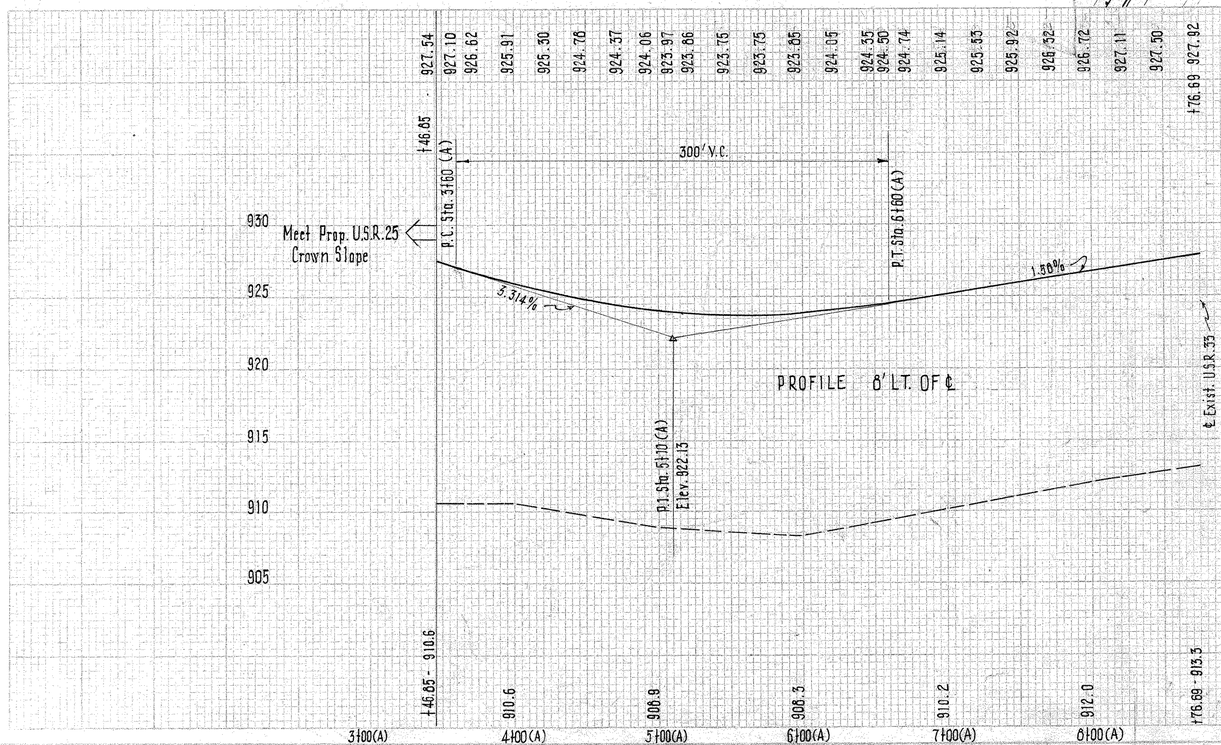
(3) Expansion Joint without Dowels (Located on radial Lines)

CURVE DATA

P.I. Sta. 3+96.19 (A)
Δ = 30° 00'
D = 12° 00'
Ls = 200'
Ts = 229.32
Es = 20.65
Θs = 12° 00'
p = 3.49
K = 99.85

Xc = 199.12
Yc = 13.92
L.T. = 133.64
S.T. = 66.95
L.C. = 199.61
Lc = 51.11

ITEM	T-35	Asphaltic Concrete Surface Course	0.1	Cu.Yds.
ITEM	B-35	Asphaltic Concrete Leveling Course	0.1	Cu.Yds.
ITEM	B-35	Asphaltic Concrete Base Course	0.1	Cu.Yds
ITEM	B-119	Crushed Aggregate Base Course	0.3	Cu.Yds.
ITEM	T-71	Reinforced Portland Cement Concrete Pavement	1404	Sq.Yds.
ITEM	I-22	Subbase	446	Cu.Yds.
ITEM	I-12	Std. Concrete Curb, Type 2-A	91	Lin.Ft.
ITEM	I-18	Stabilized Crushed Aggregate Shoulders & Approaches	61	Cu.Yds.
ITEM	E-1	Compacted Subgrade	1404	Sq.Yds.
ITEM	B-33	Bituminous Macadam Base Course	481	Sq.Yds.
ITEM	T-31	Bituminous Surface Treatment - Bituminous Material	120	Gal.
ITEM	T-31	Bituminous Surface Treatment - Aggregate	3.8	Cu.Yds.
ITEM	T-30	Bituminous Prime Coat.	0.5	Gal.



SUPERELEVATION TABLE RAMP "A" INTERCHANGE EXIST. U.S.R.33 & PROP. U.S.R. 25

Elev. 8' Lt.	Station	Superelevation	Elev. 8' Rt.
Meet Prop.	0+00 (A)	—	Meet Crown Slope
U.S.R. 25 Pav't.		—	From Prop. U.S.R. 25
Edge	1+66.67 (A)	—	932.91
	1+75 (A)	—	932.66
	2+00 (A)	—	931.89
	2+25 (A)	—	930.94
	2+50 (A)	—	929.96
	2+75 (A)	—	928.98
	3+00 (A)	—	928.00
	3+25 (A)	—	927.02
927.54	3+46.85 (A)	1.32	926.22
926.67	3+66.67 (A)	1.33	925.54
926.62	3+75 (A)	1.33	925.29
925.91	4+00 (A)	1.33	924.56
925.45	4+17.96 (A)	1.33	924.12
925.30	4+25 (A)	1.33	923.97
924.78	4+50 (A)	1.31	923.47
924.37	4+75 (A)	1.2	923.11
924.06	5+00 (A)	1.14	922.92
923.86	5+25 (A)	0.95	922.91
923.75	5+50 (A)	0.80	923.07
923.75	5+75 (A)	.42	923.33
923.85	6+00 (A)	.27	923.58
923.96	6+17.96 (A)	0.25	923.73
924.05	6+25 (A)	0.25	923.80
924.35	6+50 (A)	0.25	924.10
924.74	6+75 (A)	0.25	924.49
925.14	7+00 (A)	0.25	924.89
925.53	7+25 (A)	0.25	925.28
925.92	7+50 (A)	0.25	925.67
926.32	7+75 (A)	0.25	926.07

Elev. 8' Lt.	Station	Superelevation	Elev. 8' Rt.
926.72	8+00 (A)	0.25	926.47
927.11	8+24.69 (A)	0.25	926.86
	↓ See Detail		

PROPOSED INTERCHANGE - EXISTING U.S.R.33 & PROPOSED U.S.R. 25 - RAMP "A"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
AUG-25-5.05

6+00 (A)
908.3

923.85
923.58
2:1
919
2:1
3
907.5
10
908.2

Included in Prop. U.S.R. 25 Quantities

924.06
922.92
856
2:1
13
908.0

5+00 (A)
906.9

924.31
924.58
857
2:1
3+50 (A)
26
908.4

4+00 (A)
910.6

Included in Prop. U.S.R. 25 Quantities

724
2:1
27
908.9

2+97 (A)
910.6

	End Area		Volume	
	Cut	Fill	Cut	Fill
		13		924
			48	3306
		13		861
			72	3195
		26		864
			10	304
		27		730

X-SECTIONS PROPOSED U.S.R. 25 & EXISTING U.S.R. 33 INTERCHANGE RAMP "A" STA. 2+97 TO STA. 6+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
AUG-25-5.05

Included in Exist USR 33 Quantities

Included in Exist USR.33 Quantities

Included in Exist USR.33 Quantities

Included in Exist USR.33 Quantities

8+64.69 (A)
913.2

8+50 (A)
913.0

8+25 (A)
912.5

8+00 (A)
912.0

7+00 (A)
910.2

6+75(A)

6+75(A)

Sta 6+00

	End Area		Volume	
	Cut	FILL	Cut	Fill
0		1455		
			0	751
0		1305		
			7	1046
15		955		
			14	866
16		915		
			63	3398
18		920		
			57	3415
13		924		

	Cu. yds	Cu. yds	Cu. yds
Excavation	271	1628	18723
Embankment			
Embankment +15%			

X-SECTIONS PROPOSED U.S.R. 25 & EXISTING U.S.R. 33 INTERCHANGE RAMP "A" STA. 7+00 TO STA. 8+64.69

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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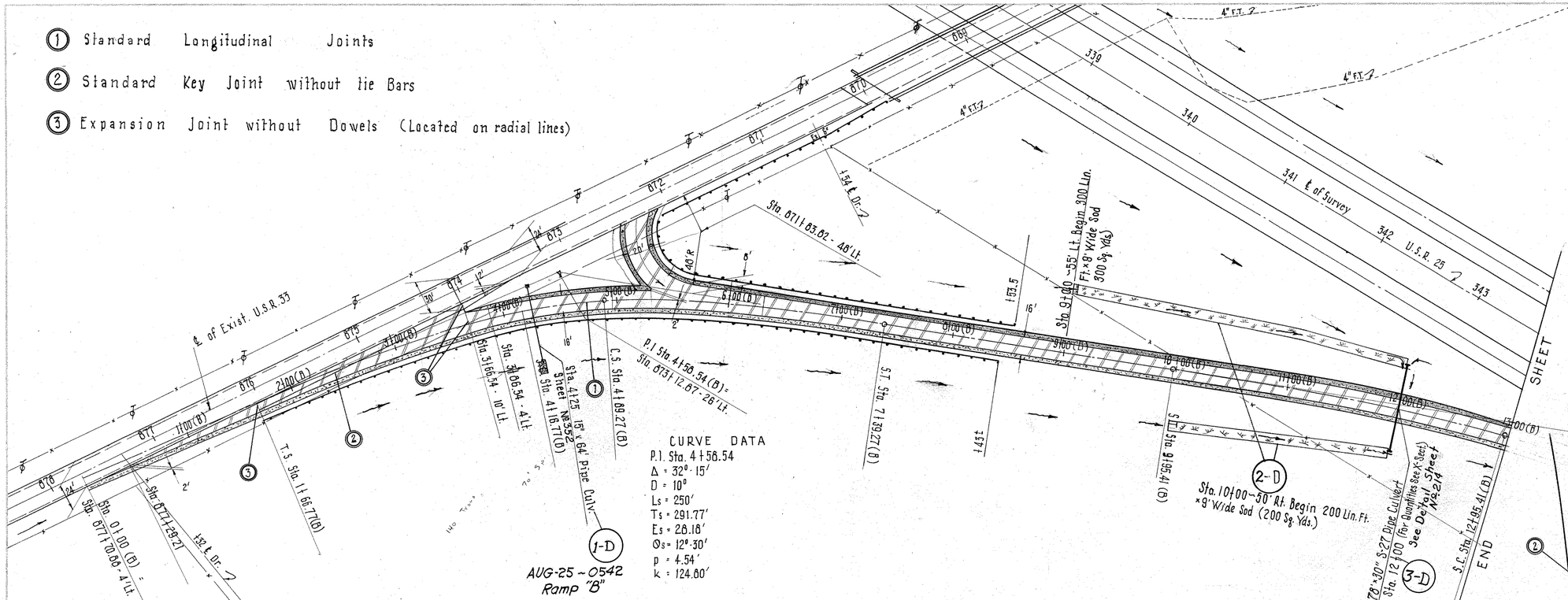
466

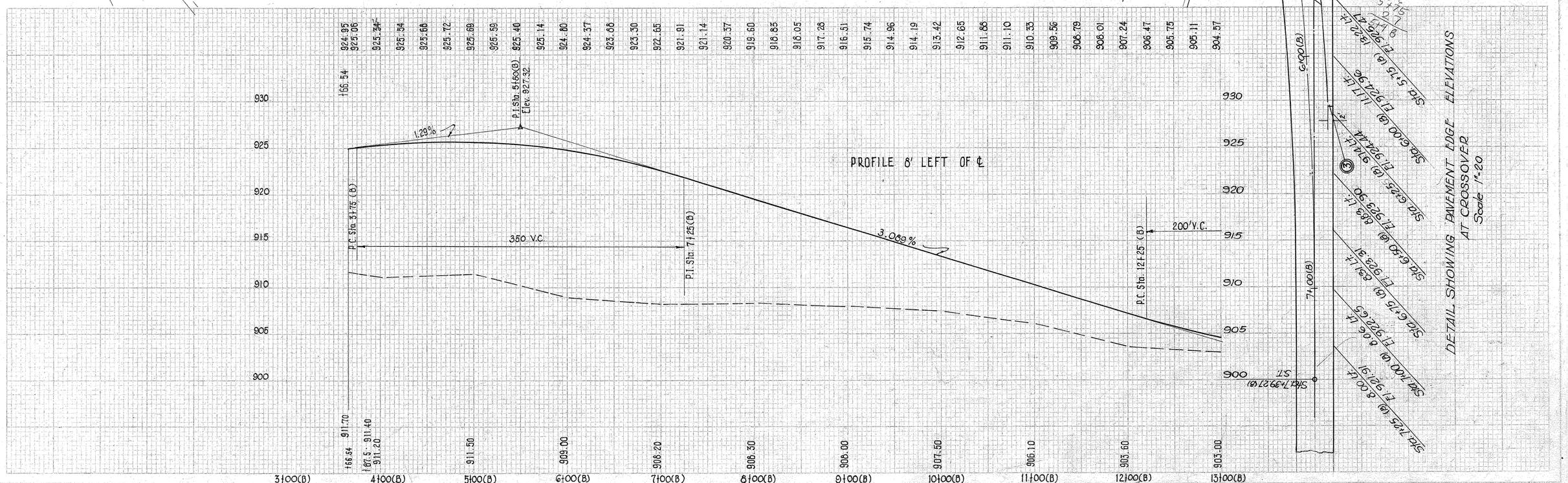
AUGLAIZE COUNTY
AUG-25-5.05

(1) Standard Longitudinal Joints

(2) Standard Key Joint without tie Bars

(3) Expansion Joint without Dowels (Located on radial lines)





PROPOSED INTERCHANGE - EXISTING U.S.R. 33 & PROPOSED U.S.R. 25 - RAMP "B"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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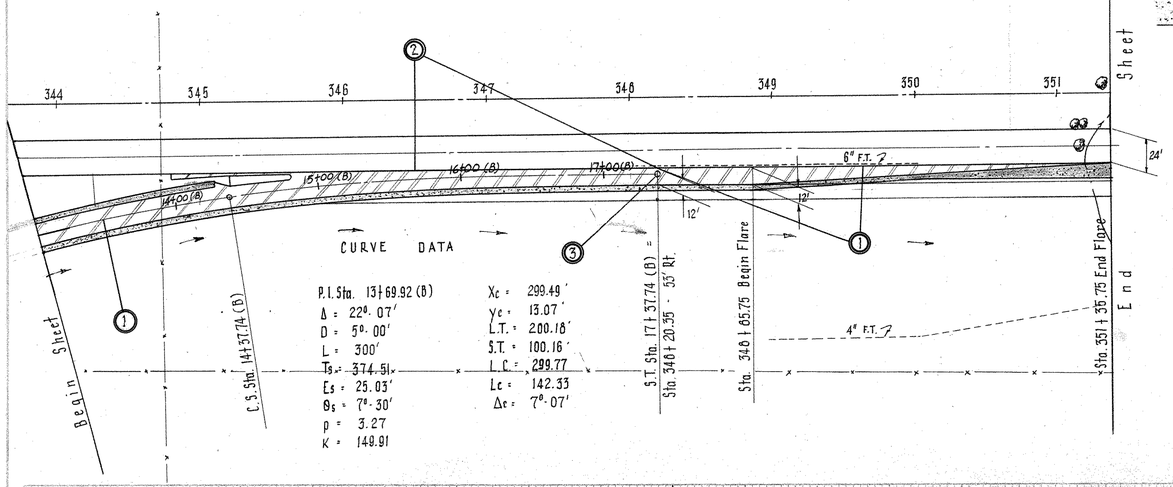
466

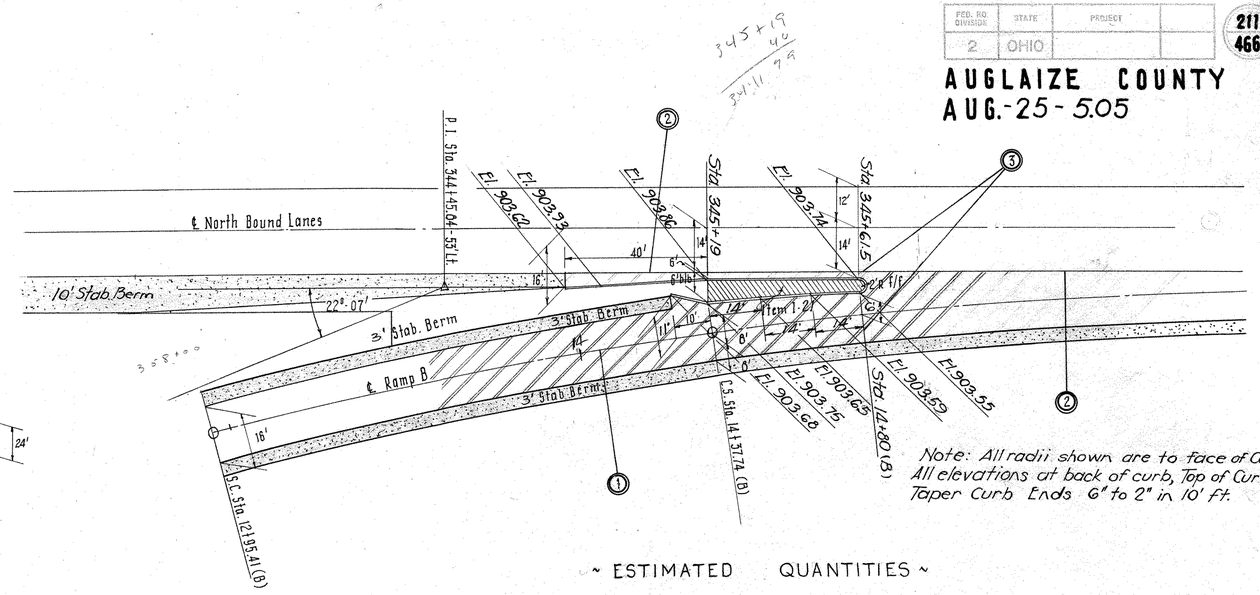
AUGLAIZE COUNTY
AUG.-25-5.05

① Standard Longitudinal Joint

② Standard Key Joint without Tie Bars

③ Expansion Joint without Dowels (Located on radial Lines)

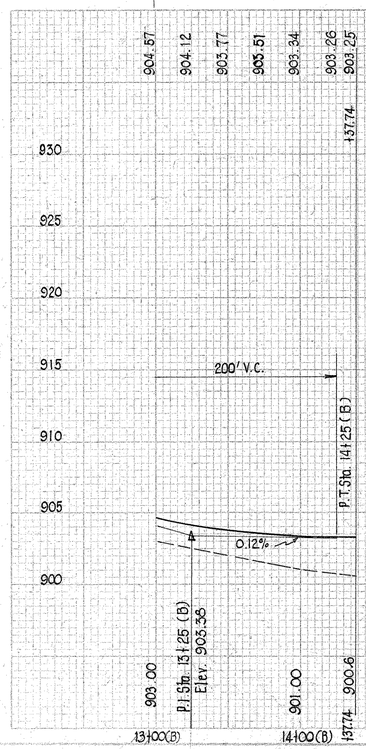




Note: All radii shown are to face of Curb. All elevations at back of curb, Top of Curb. Taper Curb Ends 6" to 2" in 10' ft.

~ ESTIMATED QUANTITIES ~

ITEM T-31	Bituminous Surface Treatment - Aggregate	9.3	Cu.Yds.
ITEM T-71	Reinforced Portland Cement Concrete Pavement	3299	Sq. Yds.
ITEM 1-22	Subbase	1056	Cu. Yds.
ITEM 1-12	Std. Concrete Curb, Type 2A	140	Lin.Ft.
ITEM 1-18	Stabilized Crushed Aggregate Shoulders & Approaches	14.5	Cu.Yds.
ITEM E-1	Compacted Subgrade	3299	Sq. Yds.
ITEM 1-21	Portland Cement Concrete Median Pavement, 4" thick as per plan	22	Sq. Yds.
ITEM B-33	Bituminous Macadam Base Course	1162	Sq. Yds.
ITEM T-31	Bituminous Surface Treatment - Bituminous Material	290.52	Gal.



SUPERELEVATION TABLE EXISTING U.S.R 33 AND PROPOSED U.S.R. 25

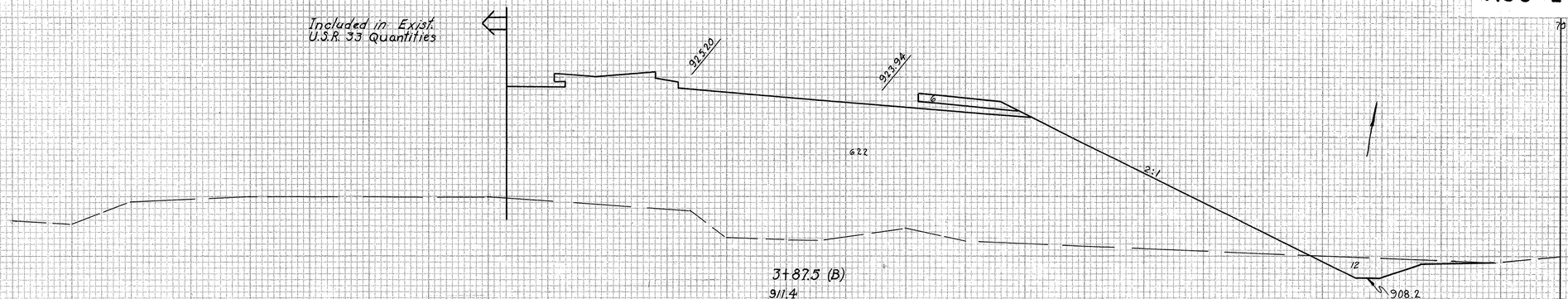
Elev. 8' Lt.	Station	Superelevation	Elev. 8' Rt.	Elev. 8' Lt.	Station	Superelevation	Elev. 8' Rt.	Elev. 8' Lt.	Station	Superelevation	Elev. 8' Rt.
	0+00 (B)	—	Edge of Ex. U.S.R 33	919.60	8+00 (B)	0.25	919.35	Meet Prop.	15+00(B)	—	901.95
Meet Edge of	1+66.77 (B)	—	921.95	918.83	8+25 (B)	0.25	918.56	U.S.R. 25	15+25 (B)	—	902.00
Pavt on Exist	1+75 (B)	—	922.06	918.05	8+50 (B)	0.25	917.80	Pavt. Edge	15+50 (B)	—	902.06
U.S.R. 33	2+00 (B)	—	923.34	917.28	8+75 (B)	0.25	917.03		15+75 (B)	—	902.10
	2+25 (B)	—	922.60	916.51	9+00 (B)	0.25	916.26		16+00 (B)	—	902.15
	2+50 (B)	—	922.82	915.74	9+25 (B)	0.25	915.49		16+25 (B)	—	902.20
	2+75 (B)	—	923.02	914.96	9+50 (B)	0.25	914.71		16+50 (B)	—	902.25
	3+00 (B)	—	923.23	914.19	9+75 (B)	0.25	913.94		16+75 (B)	—	902.29
	3+25 (B)	—	923.42	913.56	9+95.41 (B)	0.25	913.31		17+00 (B)	—	902.34
	3+50 (B)	—	923.63	913.42	10+00 (B)	0.26	913.16		17+25 (B)	—	902.34
924.95	3+66.54 (B)	1.19	923.76	912.65	10+25 (B)	0.30	912.35		17+37.74(B)	—	902.30
925.06	3+75 (B)	1.23	923.83	911.88	10+50 (B)	0.38	911.50				
925.34	4+00 (B)	1.31	924.03	911.10	10+75 (B)	0.46	910.64				
925.49	4+16.77 (B)	1.33	924.16	910.33	11+00 (B)	0.56	909.77				
925.54	4+25 (B)	1.33	924.21	909.56	11+25 (B)	0.65	908.91				
925.68	4+50 (B)	1.33	924.35	908.79	11+50 (B)	0.75	908.04				
925.72	4+75 (B)	1.33	924.39	908.01	11+75 (B)	0.85	907.16				
925.71	4+89.27 (B)	1.33	924.38	907.24	12+00 (B)	0.96	906.28				
925.69	5+00 (B)	1.32	924.37	906.47	12+25 (B)	1.06	905.41				
925.59	5+25 (B)	1.26	924.31	905.75	12+50 (B)	1.22	904.53				
925.40	5+50 (B)	1.16	924.24	905.11	12+75 (B)	1.33	904.78				
925.14	5+75 (B)	1.01	924.13	904.66	12+95.41 (B)	1.33	903.33				
924.80	6+00 (B)	.81	923.99	904.57	13+00 (B)	1.33	903.24				
924.37	6+25 (B)	.60	923.77	904.12	13+25 (B)	1.33	902.79				
923.86	6+50 (B)	.46	923.42	903.77	13+50 (B)	1.33	902.44				
923.30	6+75 (B)	.35	922.95	903.51	13+75 (B)	1.33	902.18				
922.65	7+00 (B)	.29	922.36	903.34	14+00 (B)	1.33	902.01				
921.91	7+25 (B)	.26	921.63	903.26	14+25 (B)	1.33	901.93				
921.47	7+39.27 (B)	0.25	921.22	903.25	14+37.74 (B)	1.33	901.92				
921.14	7+50 (B)	0.25	920.89	See Detail	14+50 (B)	—	901.91				
920.37	7+75 (B)	0.25	920.12	" "	14+75 (B)	—	901.91				

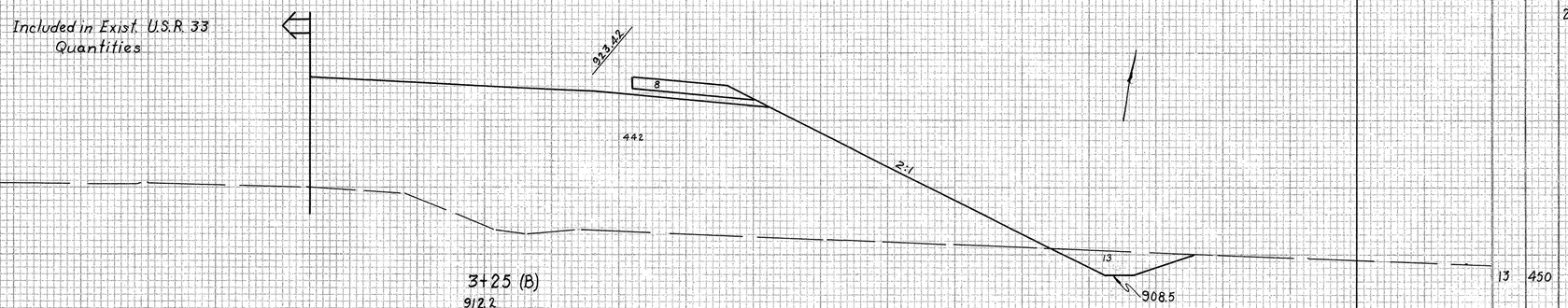
PROPOSED INTERCHANGE OF EX. U.S.R. 33 & PROPOSED U.S.R. 25 RAMP "B"

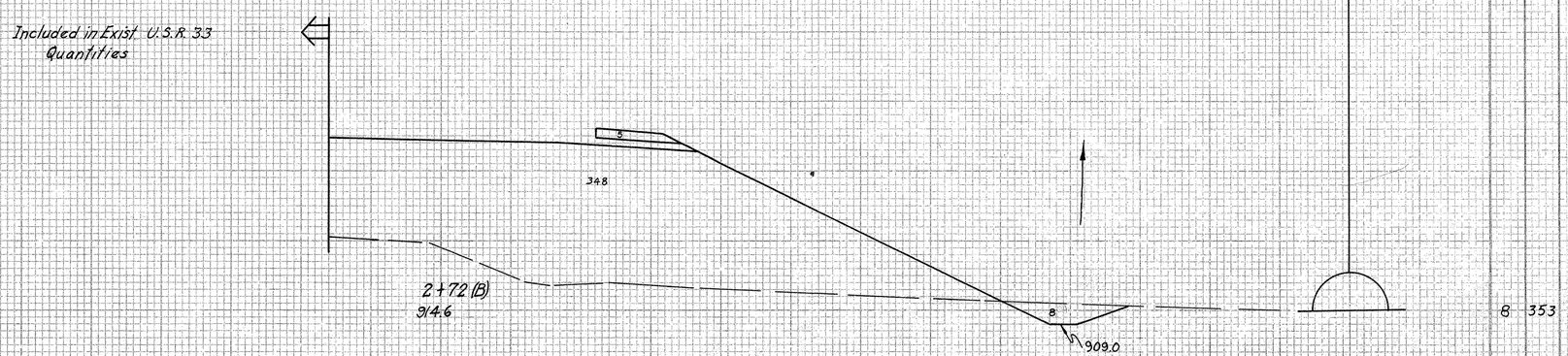
FED. R.D. DIVISION	STATE	PROJECT	
2	OHIO		

212
466

AUGLAIZE COUNTY
AUG-25-5.05







End Area Volume			
Cut	Fill	Cut	Fill
		12	628
		29	1248
		13	450
		21	788
		8	353

X-SECTIONS PROPOSED U.S.R. 25 & EXIST U.S.R. 33 INTERCHANGE RAMP "B" STA. 2+72 TO STA. 3+87.5

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

213
466

AUGLAIZE COUNTY
AUG-25-5.05

	End Area Volume			
	Cut	Fill	Cut	Fill
6+00 (B) 908.30	26	594		
			76	2704
7+00 (B) 908.20	15	866		
			50	3054
6+00 (B) 909.00	12	783		
			52	3372
5+00 (B) 911.50	16	1038		
			50	3230
4+00 (B) 911.20	11	706		
			5	309
Sta 3+87.5	12	628		

	Excavation	Embankment	Embankment + 15%
	11627 Cu.yds	19,956 Cu.yds	22949 Cu.yds

Included in Exist U.S.R. 33 Quantities

Included in Exist U.S.R. 33 Quantities

X-SECTIONS PROPOSED U.S.R. 25 & EXISTING U.S.R. 33 INTERCHANGE RAMP "B" STA. 4+00 TO STA. 8+00

FED. HWY DIVISION	STATE	PROJECT	
2	OHIO		

214
466

AUGLAIZE COUNTY
AUG-25-5.05

Included in Prop. USR. 33 Quantities

13+00 (B)
903.00

904.57
903.24
26
6
54
899.4

907.27
906.28
87
5
52
111
899.7
30" S-27 Pipe
12+00 (B)
903.60
0.8%
℄ 900.3
Std. Endwall
Std. End Wall
℄ 899.7
40.5
37.5
78'-0"

910.33
909.77
153
5
58
38
11+00 (B)
906.10
902.2
902.0

913.42
913.16
262
56
29
10+00 (B)
907.50
904.2
904.1

916.81
916.26
492
27
11
9+00 (B)
908.00
906.2
905.5

CULVERT DATA
TYPE – 30" Pipe PC 384
SIZE – 30" x 78'
WORK REQUIRED – Build 30" S-27 Pipe Culvert with Std. Concrete endwalls. Lt & Rt. And at 90° to ℄ of Sta. 12+00 (B)

ESTIMATED QUANTITIES

ITEM	E-2 Excavation for Structure	53	Cu Yds
ITEM	S-1 Concrete for Structure Class "E"	1.02	Cu Yds
ITEM	S-27 30" Pipe for Roadway Culverts Sec M-6.8 (b) or Sec M-6.6 (b)	78	Lin Ft

	End Area		Volume	
	Cut	Fill	Cut	Fill
	54	32		
			402	230
	163	92		
			48	463
	96	158		
			335	785
	85	266		
			228	1411
	38	496		
			119	2019
Sta 8+00	26	594		

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

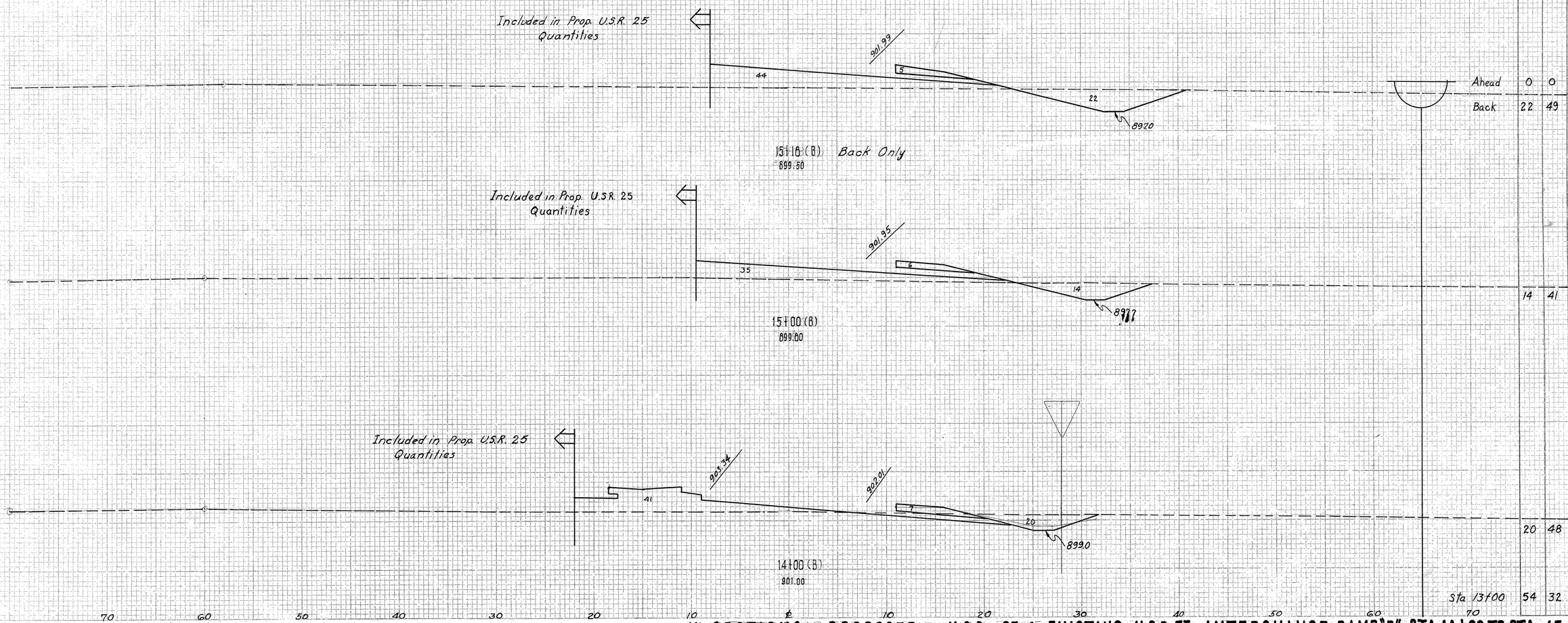
X-SECTIONS PROPOSED U.S.R. 25 & EXISTING U.S.R. 33 INTERCHANGE RAMP "B" STA. 9+00 TO STA. 13+00

FED. NO. DIVISION	STATE	PROJECT	
2	OHIO		

215
466

AUGLAIZE COUNTY
AUG-25-5.05

End Area		Volume	
Cut	Fill	Cut	Fill
		Ahead	0 0
		Back	22 49
			12 30
			14 41
			63 165
			20 48
			137 148
		Sta 13+00	54 32



X-SECTIONS PROPOSED U.S.R. 25 & EXISTING U.S.R. 33 INTERCHANGE RAMP "B" STA. 14+00 TO STA. 15+18

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

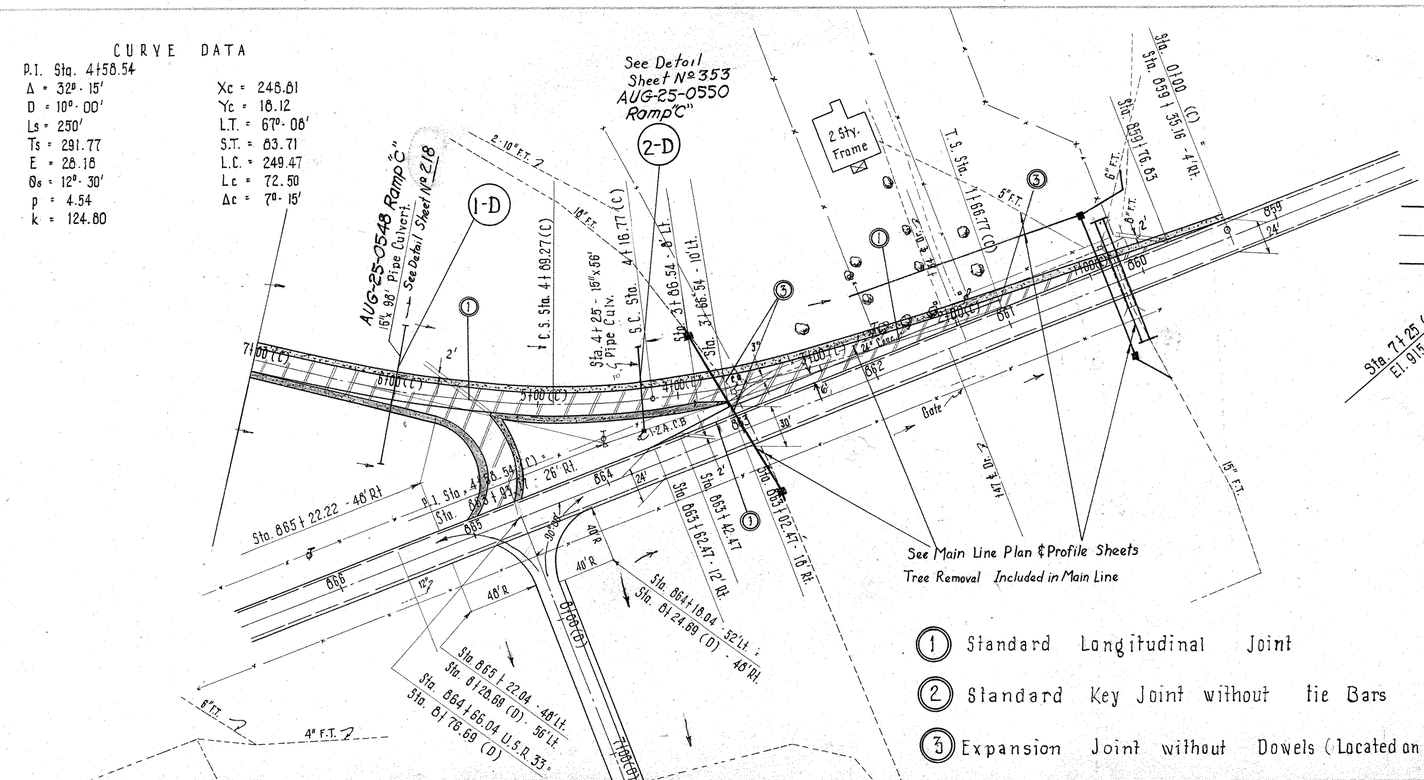
216
466

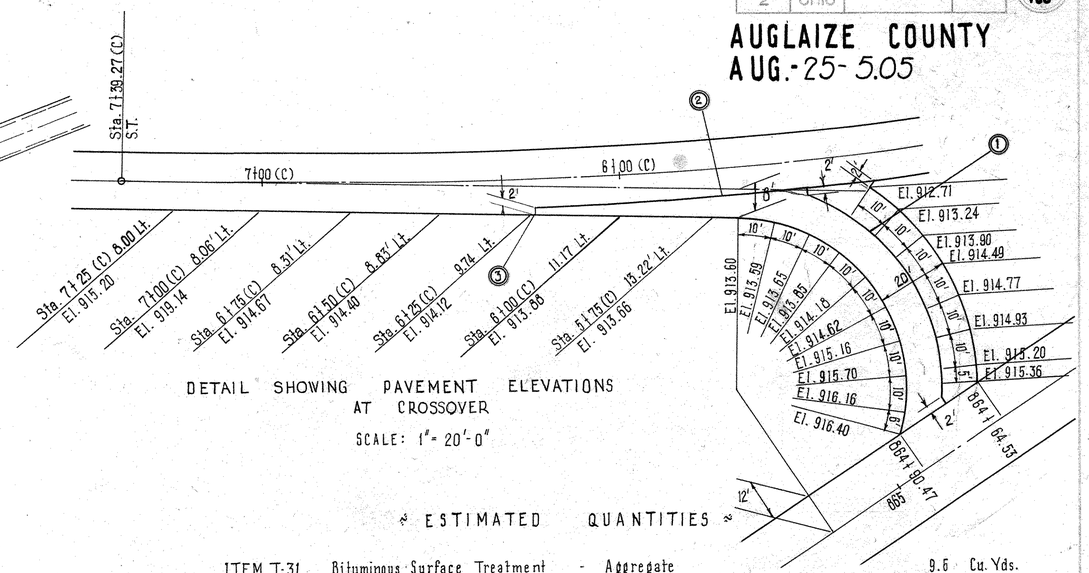
AUGLAIZE COUNTY
AUG.-25-5.05

CURVE DATA

P.I. Sta. 4+56.54
Δ = 32° - 15'
D = 10° - 00'
Ls = 250'
Ts = 291.77
E = 26.16
θs = 12° - 30'
p = 4.54
k = 124.80

Xc = 248.61
Yc = 16.12
L.T. = 67° - 08'
S.T. = 63.71
L.C. = 249.47
Lc = 72.50
Δc = 7° - 15'





DETAIL SHOWING PAVEMENT ELEVATIONS AT CROSSOVER

SCALE: 1" = 20'-0"

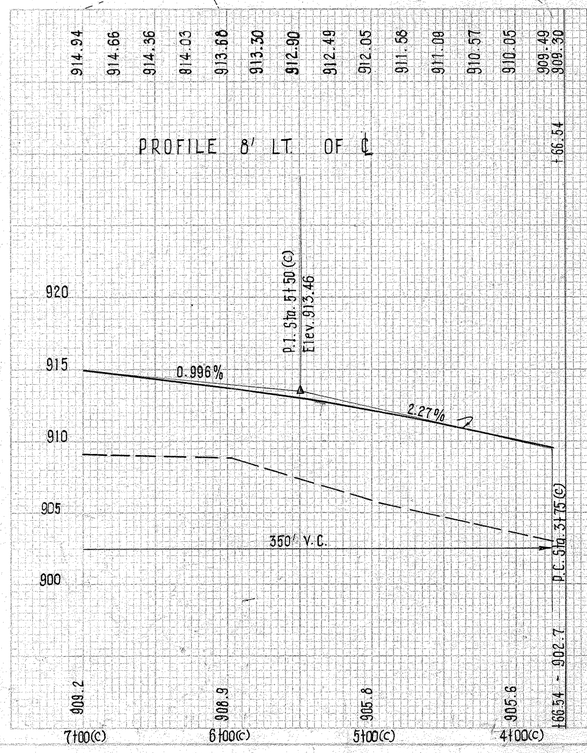
① Standard Longitudinal Joint

② Standard Key Joint without tie Bars

③ Expansion Joint without Dowels (Located on Radial lines.)

ESTIMATED QUANTITIES

ITEM T-31	Bituminous Surface Treatment - Aggregate	9.6	Cu. Yds.
ITEM T-71	Reinforced Portland Cement Concrete Pavement	3393	Sq. Yds.
ITEM 1-22	Subbase	1088	Cu. Yds.
ITEM 1-12	Std. Concrete Curb, Type 2-A	140	Lin. Ft.
ITEM 1-18	Stabilized Crushed Aggregate Shoulders & Approaches	146	Cu. Yds.
ITEM E-1	Compacted Subgrade	3393	Cu. Yds.
ITEM 1-21	Portland Cement Concrete Median Pavement, 4" thick as per plan	22	Sq. Yds.
ITEM B-33	Bituminous Macadam Base Course	1186	Sq. Yds.
ITEM T-31	Bituminous Surface Treatment - Bituminous Material	296.5	Gal.



SUPERELEVATION TABLE EXISTING U.S.R. 33 AND PROPOSED U.S.R. 25

Elev. 8' Lt.	Station	Superelelevation	Elev. 8' Rt.	Elev. 8' Lt.	Station	Superelevation	Elev. 8' Rt.	Elev. 8' Lt.	Station	Superelevation	Elev. 8' Rt.
Meet Edge	0+00 (C)	—	Meet Crown	915.95	8+00 (C)	0.25	915.70	Meet Edge of	15+00 (C)	—	929.24
of Prop U.S.R. 25	↓	–	Slope on U.S.R. 25	916.20	8+25 (C)	0.25	915.95	Prop. U.S.R. 25	15+25 (C)	–	930.08
Pavt.	1+66.77 (C)	–	905.74	916.45	8+50 (C)	0.25	916.20	Pavt.	15+50 (C)	–	930.93
	1+75 (C)	–	905.77	916.70	8+75 (C)	0.25	916.45		15+75 (C)	–	931.78
	2+00 (C)	–	905.96	916.95	9+00 (C)	0.25	916.70		16+00 (C)	–	932.64
	2+25 (C)	–	906.24	917.20	9+25 (C)	0.25	916.95		16+25 (C)	–	933.43
	2+50 (C)	–	906.58	917.44	9+50 (C)	0.25	917.19		16+50 (C)	–	934.26
	2+75 (C)	–	906.93	917.69	9+75 (C)	0.25	917.44		16+75 (C)	–	934.98
	3+00 (C)	–	907.28	917.90	9+95.41 (C)	0.25	917.65		17+00 (C)	–	935.6
	3+25 (C)	–	907.63	917.94	10+00 (C)	0.25	917.69		17+25 (C)	–	936.15
	3+50 (C)	–	907.97	918.21	10+25 (C)	0.31	917.90		17+37.74 (C)	–	936.42
909.49	3+75 (C)	1.15	908.34	918.53	10+50 (C)	0.36	918.17				
910.05	4+00 (C)	1.30	908.75	918.89	10+75 (C)	0.47	918.42				
910.41	4+16.77 (C)	1.33	909.08	919.30	11+00 (C)	0.68	918.62				
910.57	4+25 (C)	1.33	909.24	919.76	11+25 (C)	0.84	918.92				
911.09	4+50 (C)	1.33	909.76	920.26	11+50 (C)	1.03	919.23				
911.58	4+75 (C)	1.33	910.25	920.20	11+75 (C)	1.22	919.58				
911.84	4+89.27 (C)	1.32	910.52	921.38	12+00 (C)	1.29	920.09				
912.05	5+00 (C)	1.32	910.73	922.02	12+25 (C)	1.32	920.70				
912.49	5+25 (C)	1.27	911.22	922.70	12+50 (C)	1.32	921.38				
912.90	5+50 (C)	1.18	911.72	923.05	12+75 (C)	1.33	922.09				
913.30	5+75 (C)	1.10	912.20	924.05	12+95.41 (C)	1.33	922.72				
913.68	6+00 (C)	0.99	912.69	924.20	13+00 (C)	1.33	922.87				
914.03	6+25 (C)	0.85	913.18	924.99	13+25 (C)	1.33	923.66				
914.36	6+50 (C)	0.68	913.68	925.76	13+50 (C)	1.33	924.45				
914.66	6+75 (C)	0.49	914.17	926.57	13+75 (C)	1.33	925.24				
914.94	7+00 (C)	0.37	914.57	927.36	14+00 (C)	1.33	926.03				
915.20	7+25 (C)	0.28	914.92	928.16	14+25 (C)	1.33	926.83				
915.34	7+39.27 (C)	0.25	915.09	928.56	14+37.74 (C)	1.33	927.23				
915.45	7+50 (C)	0.25	915.20	See Detail	14+50 (C)	—	927.61				
915.70	7+75 (C)	0.25	915.45	↓	14+75 (C)	–	926.40				

PROPOSED INTERCHANGE OF EXISTING U.S.R. 33 & PROPOSED U.S.R. 25 ~ RAMP "C"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

217
466

AUGLAIZE COUNTY
AUG - 25 - 5.05

CURVE DATA

P.I. Sta. 13+69.90 (C)
Δ = 22° 07'
D = 30° 00'
Ls = 300'
Ts = 374.51
Es = 25.03
Θs = 7° 30'
p = 3.27
k = 149.91

Xc = 299.49
yc = 13.07
L.T. = 200.16
S.T. = 100.16
L.C. = 299.77
Lc = 142.33
Δc = 7° 07'

① Standard Longitudinal Joint
② Standard Key Joint without Tie Bars
③ Expansion Joint without Dowels (Located on radial Lines)

Sta. 324+33 Begin Flare
Sta. 326+83 End Flare
S.T. Sta. 17+37.74 (C)
326+16.99 - 55' Lt.
C.S. Sta. 14+37.74 (C)
C.S. Sta. 12+95.41 (C)
T-S. Sta. 9+95.41 (C)
7+14.7 (C)
S.T. Sta. 7+39.27 (C)
End 5 sheet
11100 (C)
15100 (C)
14100 (C)
13100 (C)
12100 (C)
10100 (C)
9100 (C)
8100 (C)
7100 (C)
24'
25'
325
326 N 0° 45' E 327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
1100 (A)
2100 (A)
3100 (A)
4100 (A)
8° R
P.I. Sta. 13+69.92 (C)
Sta. = 361+02.41 = 53.4 Lt.
+54.5
+62.5
+92
+25
+66 (C)
666
Sta. 336+19.12 U.S.R. 25 -
Sta. 666+55.02 Ex. U.S.R. 25

Note: All Radii shown are to face of Curb.
All elevations at back of Curb, Top of Curb
Taper Curb Ends 6" to 2' in 10 Ft.

El. 930.25
El. 929.87
El. 929.42
El. 929.06
C.S. Sta. 14+37.74 (C)
S.C. Sta. 12+95.41 (C)
3' Stab. Berm
℄ Ramp "C"
El. 928.67
14'
Item I-21
15100
6'
2' R
FF
El. 930.44
El. 929.16
El. 928.24
El. 927.60
℄ South Bound Lanes
Sta. 330+76
Sta. 331+18.5
P.I. Sta. 331+92.41 - 52' Lt.
℄ U.S.R. 25
331
332
RAMP "C" ENTRANCE TO S.B. U.S.R. 25
Scale 1" = 20'

926.56
928.16
927.36
926.57
925.76
924.98
924.20
923.42
922.70
922.02
921.36
920.60
920.26
919.76
919.50
918.89
918.53
918.21
917.84
917.69
917.44
917.20
916.95
916.70
916.45
916.20
915.95
915.70
915.45
915.20
914.94
300' V.C.
P.T. 13+00
-3.17%
P.C. Sta. 10+00
0.996%
350'
P.T. Sta. 7+25 (C)
P.I. Sta. 11+50
Elev. 919.44
PROFILE 8' LT. OF ℄
930
925
920
915
910
905
+37.74 - 911.3
911.8
910.5
910.0
908.8
908.1
908.6
908.7
908.2
14+00 (C)
13+00 (C)
12+00 (C)
11+00 (C)
10+00 (C)
9+00 (C)
8+00 (C)
7+00 (C)

PROPOSED INTERCHANGE OF EX. U.S.R. 33 & PROPOSED U.S.R. 25 RAMP "C"

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

218
466

AUGLAIZE COUNTY
AUG-25-5.05

CULVERT DATA

TYPE – 15" S-27 Pipe PC3&4
SIZE – 15" × 98'
WORK REQUIRED – Construct 98'×15" S-27 Pipe Culvert with Std. Concrete End Walls Lt. & Rt. and at 90° to ℄ Survey Sta. 6+00 (C)

ESTIMATED QUANTITIES

ITEM E-2 Excavation For Structures	36	Cu. Yds.
ITEM S-1 Concrete for Structures Class "E"	0.52	Cu. Yds.
ITEM S-27 15" Pipe for Roadway Culverts Sec M-6.8(b) or Sec M-6.6(b)	98	Lin. Ft.

7+00 (C)
909.2

914.94 914.67 913.68 912.69 912.05 910.73 909.98 908.15 906.79 905.65

30 253 54 187 52' 46' 87 260 21 226 164 48

5 5 5 5 6 5 5 5 7 5

906.3 904.6 F/L 905.0 Std. End Wall Included in Exist U.S.R. 33 Quantities Prop. 15"×98' S-27 Pipe 0.7% 6+00 (C) 906.9 Std End Wall F/L 904.3 904.0

5+00 (C)
905.8

Included in Exist U.S.R.33 Quantities

903.0

4+00 (C)
903.6

Included in Exist U.S.R.33 Quantities

902.0

3+62.5 (C)
902.65

Included in Exist U.S.R.33 Quantities

903.6

2+65 (C)
904.9

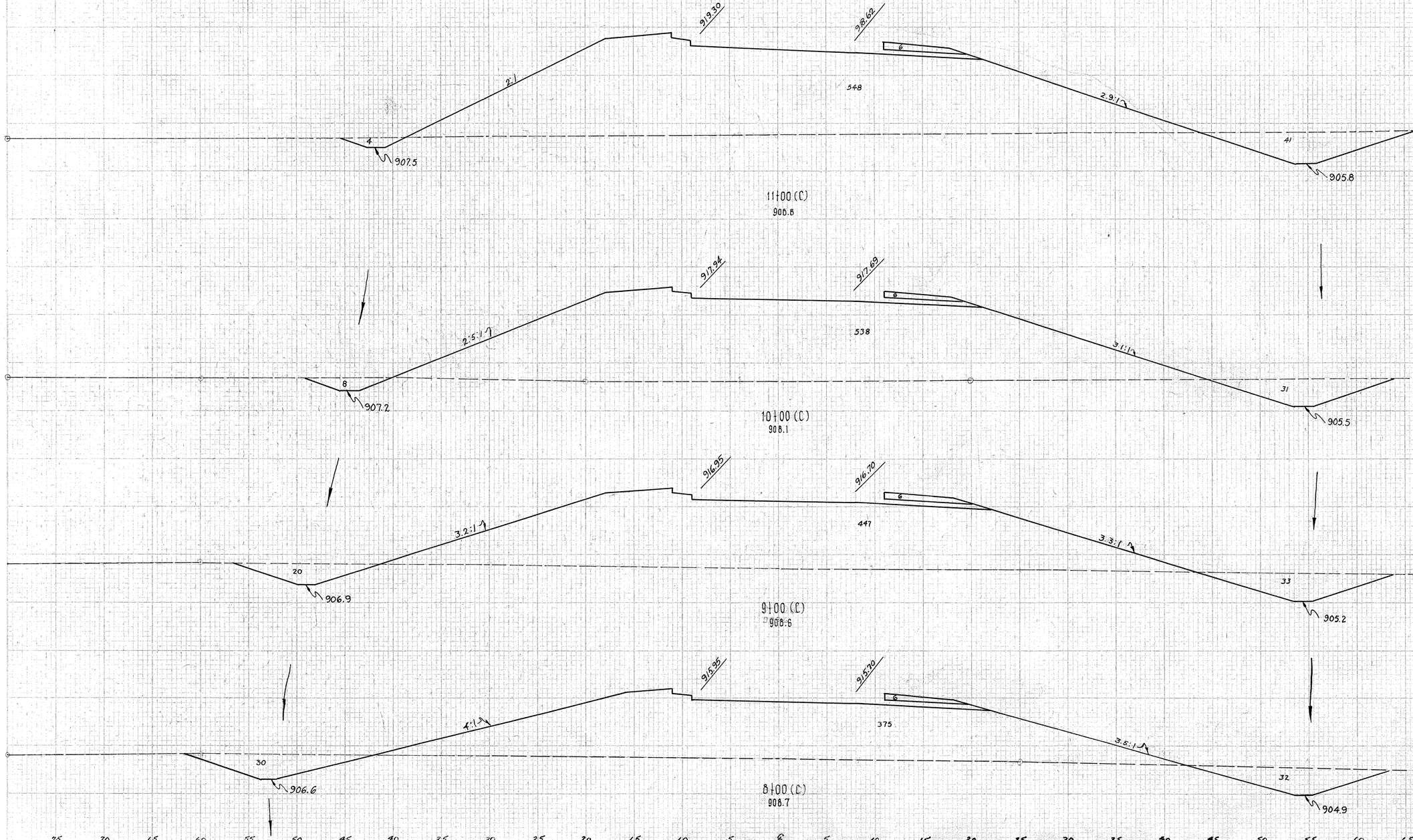
	End Area		Volume	
	Cut	Fill	Cut	Fill
	84	258		
				396 833
	130	192		
				280 848
	21	266		
				48 920
	5	231		
				8 276
	7	167		
				13 397
	0	53		

X-SECTIONS PROPOSED U.S.R. 25 & EXISTING U.S.R. 33 INTERCHANGE RAMP "C" STA. 2+65 C TO STA. 7+00 C

FED. RD. DIVISION	STATE	PROJECT		219
2	OHIO			466

AUGLAIZE COUNTY
AUG-25-5.05

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



Excavation	2813	Cu.yds
Embankment	19,130	Cu.yds
Embankment + 15%	22,000	Cu.yds

End Area		Volume	
Cut	Fill	Cut	Fill
45	554		
		156	2033
39	544		
		170	1846
53	453		
		213	1544
62	381		
		270	1183
Sta 7+00	84	258	

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

X-SECTIONS PROPOSED USR 25 & EXISTING USR 33 INTERCHANGE RAMP "C" STA 8+00 TO STA 11+00

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

220
466

AUGLAIZE COUNTY
AUG-25-5.05

Included in Prop. U.S.R. 25 Quantities

927.72 — 6 — 779

Included in Prop. U.S.R. 25 Quantities

927.36 — 926.03 — 7 — 779 — 14+58 (C) 911.2

28 — 907.0

47 — 906.7

14+00 (C) 911.8

Included in Prop. U.S.R. 25 Quantities

924.20 — 922.87 — 7 — 765 — 2:1

47 — 906.4

13+00 (C) 910.5

Included in Prop. U.S.R. 25 Quantities

921.38 — 920.09 — 7 — 593 — 2:1 — 2.5:1

55 — 906.1

12+00 (C) 910.0

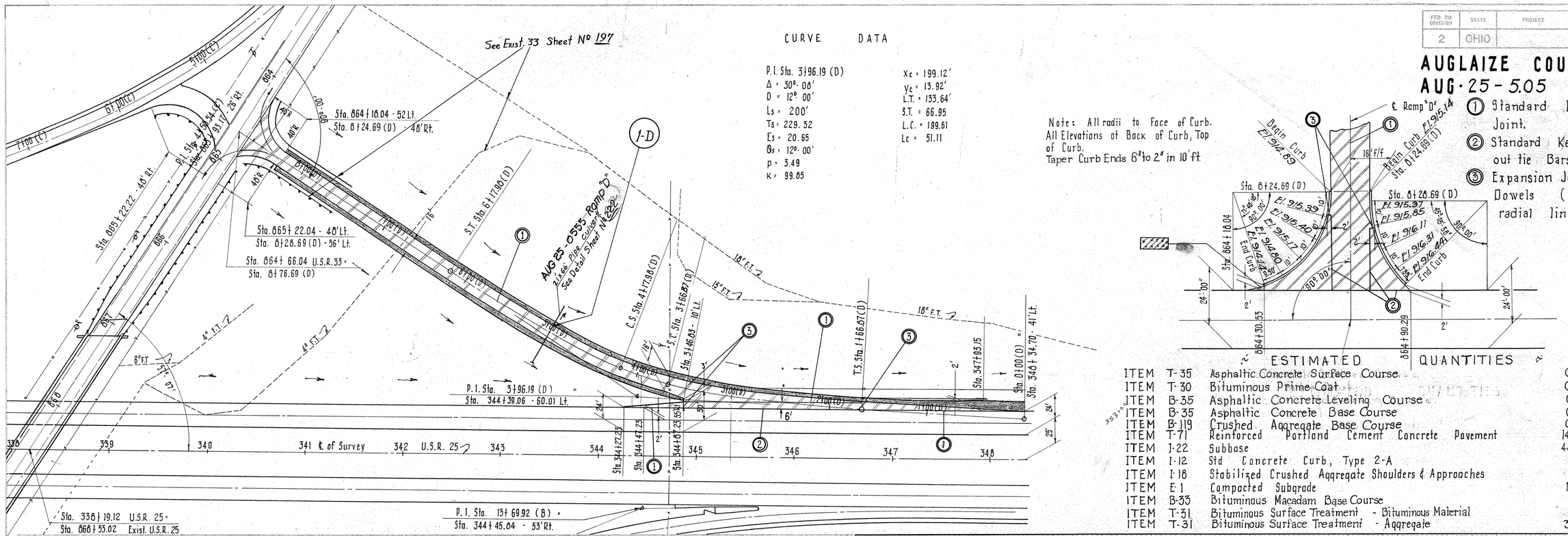
	End Area		Volume	
	Cut	Fill	Cut	Fill
	28	785		
			81	1687
	47	786		
			174	2885
	47	772		
			189	2541
	55	600		
			185	2137
Sta 11+00	45	554		

X-SECTIONS PROPOSED U.S.R. 25 & EXISTING U.S.R. 33 INTERCHANGE RAMP "C" STA. 12+00 TO STA. 14+58

FED. RD. DIVISION	STATE	PROJECT		221 466
2	OHIO			

AUGLAIZE COUNTY

AUG-25-5.05



ESTIMATED QUANTITIES

ITEM	T-35	Asphaltic Concrete Surface Course	0.1	Cu.Yds.
ITEM	T-30	Bituminous Prime Coat	0.5	Gal.
ITEM	B-35	Asphaltic Concrete Leveling Course	0.1	Cu.Yds.
ITEM	B-35	Asphaltic Concrete Base Course	0.1	Cu.Yds.
ITEM	B-119	Crushed Aggregate Base Course	0.3	Cu.Yds.
ITEM	T-71	Reinforced Portland Cement Concrete Pavement	1404	Sq.Yds.
ITEM	I-22	Subbase	446	Cu.Yds.
ITEM	I-12	Std Concrete Curb, Type 2-A	91	Lin.Ft.
ITEM	I-18	Stabilized Crushed Aggregate Shoulders & Approaches	61	Cu.Yds.
ITEM	E-1	Compacted Subgrade	1404	Sq.Yds.
ITEM	B-33	Bituminous Macadam Base Course	481	Sq.Yds.
ITEM	T-31	Bituminous Surface Treatment - Bituminous Material	120	Gals
ITEM	T-31	Bituminous Surface Treatment - Aggregate	3.8	Cu.Yds.

1. ① Standard Longitudinal Joint.
2. ② Standard Key Joint without tie Bars.
3. ③ Expansion Joint without Dowels (Located on radial lines)

SUPERELEVATION TABLE RAMP "D" INTERCHANGE EXIST. U.S.R. 33 & PROP. U.S.R. 25

Elev. 8' Lt.	Station	Superelevation	Elev. 8' Rt.	Elev. 8' Lt.	Station	Superelevation	Elev. 8' Rt.
Meet Prop.	0+00 (D)	—	Meet Crown Slope	913.46	7+75 (D)	0.25	913.21
U.S.R. 25 Pav't.	↓	—	from Prop. U.S.R. 25	913.97	7+90 (D)	0.25	913.72
Edge	1+66.87 (D)	—	902.63	914.29	8+00 (D)	0.25	914.04
	1+75 (D)	—	902.65	914.97	8+24.69 (D)	0.25	914.72
	2+00 (D)	—	902.82		↓ See	Detail	
	2+25 (D)	—	902.68				
	2+50 (D)	—	902.54				
	2+75 (D)	—	902.40				
	3+00 (D)	—	902.25				
	3+25 (D)	—	902.11				
903.32	3+46.63 (D)	1.30	902.02				
903.34	3+66.87 (D)	1.33	902.01				
903.35	3+75 (D)	1.33	902.02				
903.42	4+00 (D)	1.33	902.09				
903.54	4+17.98 (D)	1.33	902.21				
903.60	4+25 (D)	1.32	902.28				
903.86	4+50 (D)	1.25	902.63				
904.25	4+75 (D)	1.12	903.13				
904.74	5+00 (D)	.99	903.75				
905.31	5+25 (D)	.78	904.53				
905.99	5+50 (D)	.58	905.41				
906.78	5+75 (D)	0.38	906.40				
907.62	6+00 (D)	0.28	907.34				
906.22	6+17.98 (D)	0.25	907.97				
906.45	6+25 (D)	0.25	906.20				
909.28	6+50 (D)	0.25	909.03				
910.12	6+75 (D)	0.25	909.87				
910.96	7+00 (D)	0.25	910.71				
911.79	7+25 (D)	0.25	911.54				
912.62	7+50 (D)	0.25	912.37				

PROPOSED INTERCHANGE OF EXISTING U.S.R. 33 & PROPOSED U.S.R. 25 RAMP "D"

PROJ. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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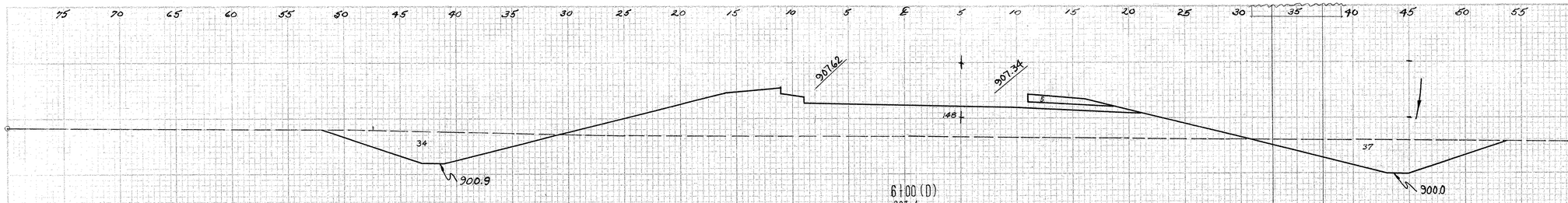
466

AUGLAIZE COUNTY
AUG-25-5.05

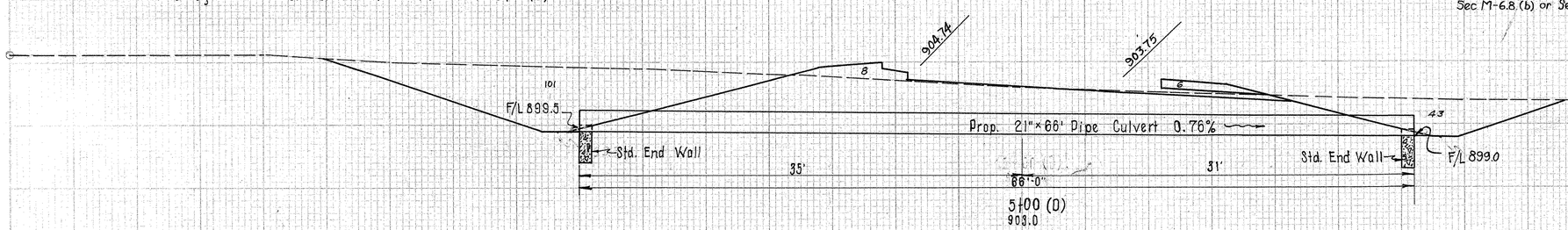


CULVERT DATA

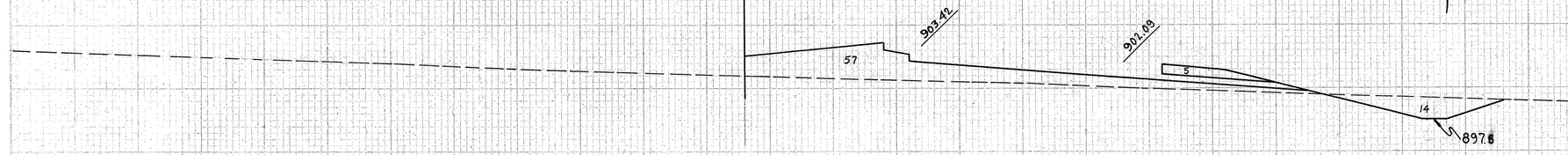
TYPE – 21" S-27 Pipe P.C. 3 & 4
SIZE – 21" × 66'-0"
WORK REQUIRED – Construct 66'×21" S-27 Pipe Culvert at 90° to ℄ of Survey with Std. Concrete End Walls Rt. & Lt. Sta. 5+00 (D)

ESTIMATED QUANTITIES

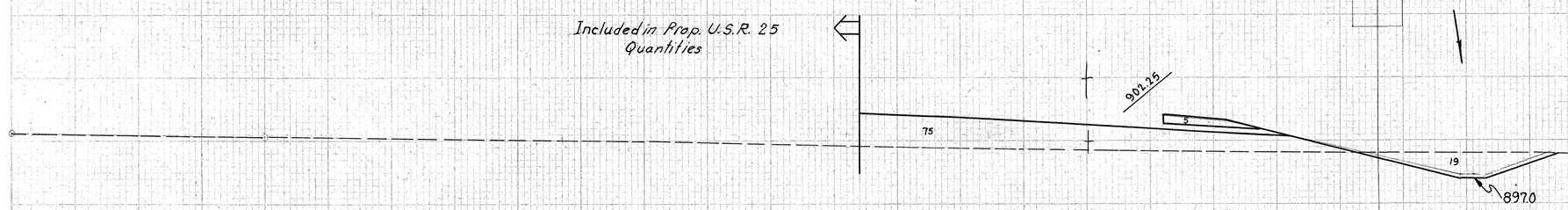
ITEM	E-2 Excavation for Structures	27	Cu. Yds.
ITEM	S-1 Concrete for Structures	0.72	Cu. Yds.
ITEM	S-27 21" S-27 Pipe for Roadway Culverts Sec M-6.8 (b) or Sec M-6.6 (b)	66	Lin. Ft.



Included in Prop. U.S.R. 25 Quantities



Included in Prop. U.S.R. 25 Quantities



Included in Prop. U.S.R. 25 Quantities



	End Area		Volume	
	Cut	Fill	Cut	Fill
	71	153		
				398 309
	144	14		
				293 141
	14	62		
				61 263
	19	80		
				60 175
	29	61		

X-SECTIONS PROPOSED U.S.R. 25 & EXISTING U.S.R. 33 INTERCHANGE RAMP "D" STA. 2+33 TO STA. 6+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY
AUG-25-5.05

Included in Exist U.S.R. 33 Quantities

987

8+64.69 (D)
906.3

Included in Exist U.S.R. 33 Quantities

915.61 915.36 14

894

8+50 (D)
905.7

914.97 914.72 15

576

Included in Exist U.S.R. 33 Quantities

6
904.0

8+25 (D)
904.8

914.29 914.04

529

2:1 2:1

6 8
903.0 902.0

8+00 (D)
903.8

910.96 910.71 5

469

15 8
902.8 900.6

7+00 (D)
902.3

	End Area		Volume	
	Cut	Fill	Cut	Fill
0		987		
			0	516
0		908		
			3	694
6		591		
			9	521
14		534		
			69	1867
23		474		
			174	1161
Sta 6+00	71	153		

	Cu.yds	Cu.yds	Cu.yds
Excavation	1067	5647	6494
Embankment + 15%			

X-SECTIONS PROPOSED U.S.R. 25 & EXISTING U.S.R. 33 INTERCHANGE RAMP "D" STA. 7+00 TO STA. 8+64.6

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY
AUG-25-5.05

DRAINAGE TABLE

Plan & Profile Sheet №	Reference №	Detail Sheet №	Station From	Station To	E-12 Pipe Removed 15" and Under (Lin. Ft.)	E-12 Pipe Removed 15" and Under (Lin. Ft.)	E-12 Pipe Removed for Storage 15" and Under (Lin. Ft.)	E-12 Pipe Removed for Storage Over 15" (Lin. Ft.)	I-1 Pipe for Driveways 12" (Lin. Ft.)	I-2 Class "A" Storm Sewers under Pavement and Approaches 15" (Lin. Ft.)	I-3 Roadway Drainage 15" (Lin. Ft.)	I-3 Outlet for Roadway Drainage 8" (Lin. Ft.)	SIDE	I-8 Catch Basin № 1-4 (Ea.)	I-8 Catch Basin № 1-2-A (Ea.)	I-16 Manholes Abandoned (Ea.)	I-16 Catch Basins Abandon (Ea.)	L-10 Sodding (Sq.Yd.)	Remarks
225	1-D		6+00	8+00									Rt.					200	
226	2-D		10+00	11+00									Rt.					100	
226	3-D		10+63	–			14						Lt.						
226	4-D		12+50	–	40								Lt. & Rt.						
226	5-D		12+50	22+00						144 (6+½)	810 (4'-5")		Lt.	1	1				
226	6-D		12+50	22+00	962								Lt.			1	1		
226	7-D		16+90	–								10	Rt.						
226	8-D		16+90		39								Lt. & Rt.						
227	1-D		22+00	–					34				Lt.						
227	2-D		22+00	23+00							100		Lt.						
227	3-D		22+00	23+00	100								Lt.						
Totals to Middle Pike Calculations																		300	
Totals to U.S.R. 25 Drainage Table					1161		14		34	144	910	10		1	1	1	1	300	

DRIVE AND APPROACH TABLE

Plan & Profile Sheet №	Reference №	SIDE	Station From	Station To	B-35 Asphaltic Concrete Leveling Course (Cu.Yd.)	B-119 Crushed Aggregate Base Course (Cu.Yd.)	I-18 Stabilized Crushed Aggregate Shoulders & Appro. (Cu.Yd.)	I-22 Subbase (Cu.Yd.)	T-30 Bituminous Prime Coat @ 0.35 Gal. per Sq.Yd. (Gal.)	T-35 Asphaltic Concrete Surface Course (Cu.Yd.)	Remarks
226	1-A	Lt.&Rt.	6+75	7+66	4.2	3.4		3.7	5.0	6.2	
226	2-A	Lt.	0+00	–			14.8				Drive
226	3-A	Lt.	9+38	–			4.7		12.0	1.7	M.B.App.
226	4-A	Rt.	9+64				15.7		33.1	4.2	Drive
227	1-A	Lt.	22+00				12.3				Drive
227	2-A	Lt.&Rt.	22+27	23+00	4.2	6.3		2.7	36.1	5.0	
Totals to Middle Pike Calculations					8.4	9.7	47.5	6.4	86.2	17.1	
Totals to U.S.R. 25 Calculations							47.5				

EARTHWORK TABLE

Plan & Profile Sheet №	Station From	Station To	Excavation (Cu.Yd.)	Embankment (Cu.Yd.)	Embankment +15% (Cu.Yd.)	ROADSIDE IMPROVEMENT L-9 Seeding & Protecting (Sq.Yd.)
230	6+00	23+25	962	31821	36594	16,065
Total to Middle Pike Calc.			962	31821	36594	16,065
Total to U.S.R. 25 Table			962			16,065

EARTHWORK CALCULATIONS

Total Embankment +15% = 36594
Total Excavation Available = 962
35,632

Net Embankment required for Middle Pike Forward to U.S.R. 25 Table 35,632 Cu.Yd.

GUARD RAIL TABLE

Plan & Profile Sheet №	Reference №	Station From	Station To	SIDE	I-15 Guard Rail Steel Beam Type "Deep" Straight (Lin. Ft.)	Remarks
226	1-G	9+60.16	13+85	Lt.	425.0	
226	2-G	9+85.16	13+85	Rt.	400.0	
226	3-G	16+16	20+53.34	Lt.	437.5	
226	4-G	16+16	20+53.34	Rt.	437.5	
Total to U.S.R 25 Table					1700.0	

APPROACH SLAB TABLE

Plan & Profile Sheet №	STATION From	STATION To	I-7 Reinforced Concrete Approach Slab T=11½" (Sq.Yd.)	E-1 Compacted Subgrade (Sq.Yd.)	I-22 Subbase (Cu.Yd.)		Remarks
226	13+69.75	13+89.75	44.4	44.4	8.1		
226	16+10.25	16+30.25	44.4	44.4	8.1		
Total to Middle Pike Calc.				88.8	16.2		
Total to U.S.R. 25 Table			88.8				

MIDDLE PIKE CALCULATIONS

ITEM T-35 ASPHALTIC CONCRETE SURFACE COURSE (70-80) TYPE "A"

From Typical Section № 1	1064.50	Lin. Ft.
1064.5 x 20 x 1.25/12 ÷ 27 =	82.1	Cu.Yd.
From Typical Section № 2 (Estimated)	10.1	Cu.Yd.
From Drive & Approach Table	17.1	Cu.Yd.
Total =	109.3	Cu.Yd.
Total to U.S.R. 25 Calculations	109.3	Cu.Yd.

ITEM B-35 ASPHALTIC CONCRETE LEVELING COURSE (70-80)

From Typical Section № 1	1064.50	Lin. Ft.
1064.5 x 20 x 2/12 ÷ 27 =	131.4	Cu.Yd.
From Typical Section № 2 (Estimated)	15.7	Cu.Yd.
From Drive & Approach Table	8.4	Cu.Yd.
Total =	155.5	Cu.Yd.
Total to U.S.R. 25 Calculations	155.5	Cu.Yd.

ITEM T-30 BITUMINOUS PRIME COAT

From Typical Section № 1	1064.50	Lin. Ft.
1064.5 x 21 ÷ 9 x 0.35 =	869.3	Gal.
From Typical Section № 2 (Estimated)	97.2	Gal.
From Drive & Approach Table	86.2	Gal.
Total =	1052.7	Gal.
Total to U.S.R 25 Calculations	1052.7	Gal.

ITEM B-119 CRUSHED AGGREGATE BASE COURSE

From Typical Section № 1	1064.50	Lin. Ft.
1064.5 x 21 x 5/12 ÷ 27 =	345.0	Cu.Yd.
From Typical Section № 2 (Estimated)	32.9	Cu.Yd.
From Drive & Approach Table	9.7	Cu.Yd.
Total =	387.6	Cu.Yd.
Total to U.S.R. 25 Calculations	387.6	Cu.Yd.

ITEM I-22 SUBBASE

From Typical Section № 1	1064.50	Lin. Ft.
1064.5 x 22 x 4/12 ÷ 27 =	289.1	Cu.Yd.
From Typical Section № 2 (Estimated)	15.0	Cu.Yd.
From Drive & Approach Table	6.4	Cu.Yd.
From Approach Slab Table	16.2	Cu.Yd.
Total =	326.7	Cu.Yd.
Total to U.S.R. 25 Calculation	326.7	Cu.Yd.

ITEM E-1 COMPACTED SUBGRADE

From Typical Section № 1	1064.50	Lin. Ft.
1064.5 x 20 ÷ 9 =	2365.6	Sq.Yd.
From Approach Slab Table	88.8	Sq.Yd.
Total =	2454.4	Sq.Yd.
Total to U.S.R. 25 Calculations	2454.4	Sq.Yd.

ITEM E-11 WATER

From Roadway Earthwork Table	31821	Cu.Yd.
From Drive & Approach Table (1-18)	47.5	Cu.Yd.
From B-119 Calculations	387.6	Cu.Yd.
From 1-22 Calculations	326.7	Cu.Yd.
Total =	32582.8	Cu.Yd.
32582.8 x 5 ÷ 1000 =	162.9	M.Gal.
Total to U.S.R. 25 Calculations	162.9	M.Gal.

ITEM I-9 STONE UNDERDRAIN № 2

Estimated 668 Lin. Ft. of Stone Underdrains to be placed approximately 50' apart on each side as directed by the Engineer.

Total to U.S.R. 25 Calculations 668 Lin.Ft.

ITEM L-9 COMMERCIAL FERTILIZER (10-6-4)

From Roadside Improvement Table	= 16065	Sq.Yd.
From Drainage Table (L-10 Sodding)	= 300	Sq.Yd.
Total	= 16365	Sq.Yd.
16365 x 9/1000 x 20/2000 =	1.47	Tons
Total to U.S.R. 25 Calculations	1.47	Tons.

TABLES AND CALCULATIONS (MIDDLE PIKE)

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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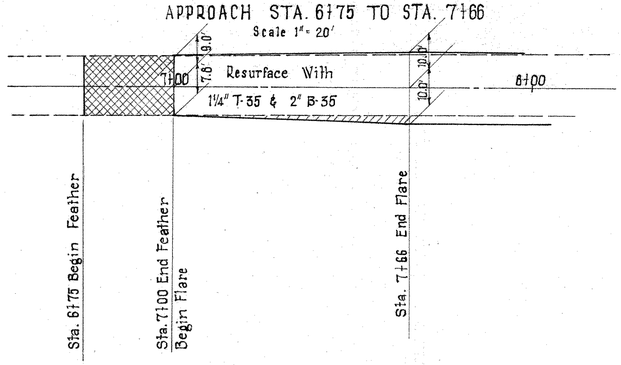
466

AUGLAIZE COUNTY
AUG-25-5.05

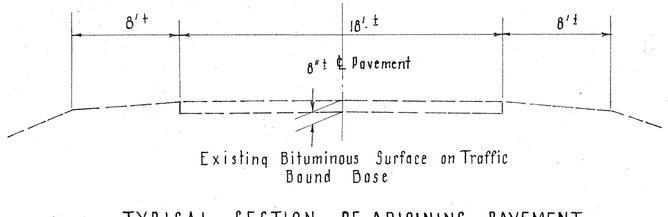
APPROACH STA. 6+75 TO STA. 7+66

Scale 1" = 20'



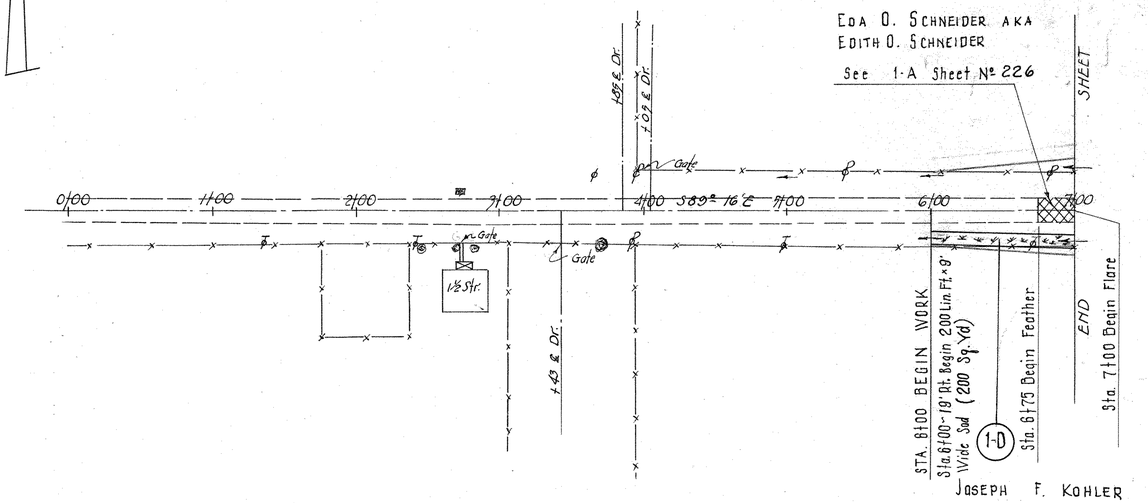
ESTIMATED QUANTITIES

ITEM	B-35	2" Asphaltic Concrete Leveling Course (70-80)	4.2 Cu.Yds.
ITEM	B-119	5" Crushed Aggregate Base Course	3.4 Cu.Yds.
ITEM	I-22	4" Subbase	3.7 Cu.Yds.
ITEM	T-30	Bituminous Prime Coat @ 0.35 Gals. Per Sq.Yd.	5.0 Gals.
ITEM	T-35	1¼" Asphaltic Concrete Surface Course Type "A" (70-80)	6.2 Cu.Yds.

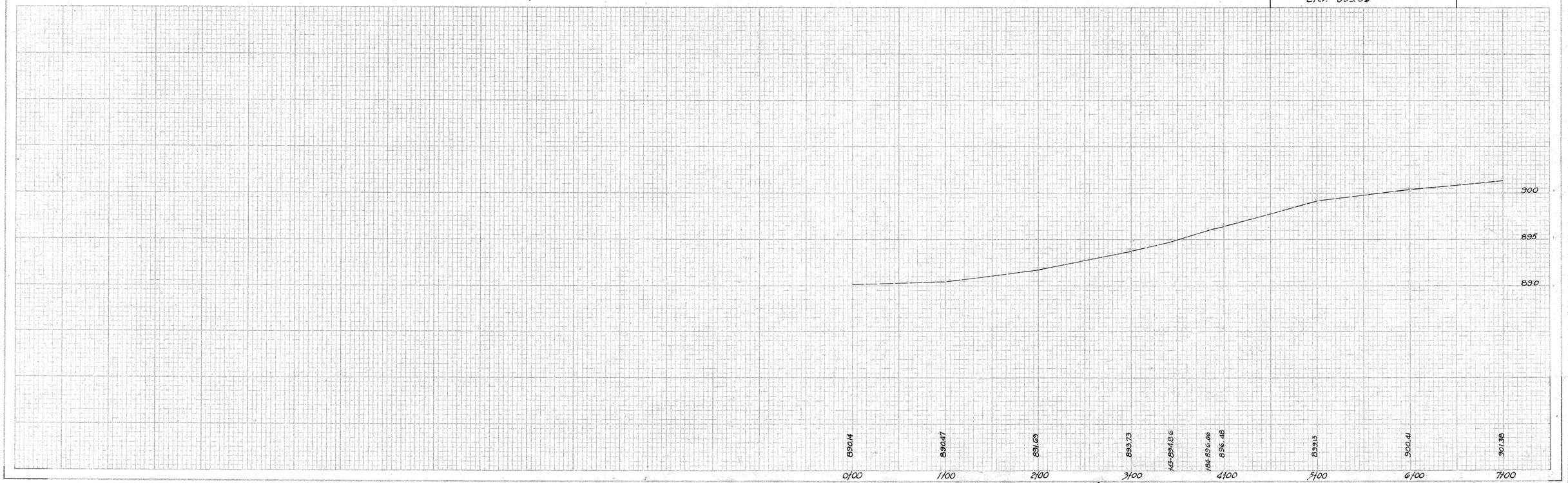


TYPICAL SECTION OF ADJOINING PAVEMENT





BENCH MARK
B.M. RR Spike in ℄ Lt. Sta. 6+85
Elev. 892.04



PLAN & PROFILE STA. 0+00 TO STA. 7+00 (MIDDLE PIKE)

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY
AUG-25-5.05

EDA O. SCHNEIDER A.K.A.
EDITH O. SCHNEIDER

Capped Nail — 35.25' — Sta. 13+00 Middle Pike — 99.10' — 61.79' — Capped Nail — Capped Nail

N

Capped Nail — 41.08' — Fence Post — 76.85' — Sta. 17+00 on Middle Pike — 45.89' — Capped Nail

EDA O. SCHNEIDER A.K.A
EDITH O SCHNEIDER

SHEET BEGIN — 2-A — 3-A — 3-D — 1-G — 5-D — 3-G — SHEET END

Sta. 12+53 - 64' Lt. 1-6 № 1-4 Catch Basin

Temporary Fence

Dug Well with Wind Pump

144 Lin. Ft of 15" Class "A" 1-2 Pipe for Storm Sewers Under Pavement

Sta. 15+70 - 64' Lt. 1-6 № 1-2 A.C.B Std.

4' of 15" 1-3 Pipe

Prop. 15" 1-3 Pipe

E-12 Pipe Removed

M.H. (Abandon)

Ex. 12" C.M.P. Remove for Storage

Gate

Abandon

Abandon Ex. C.B.

Prop. 15" 1-3 Pipe

E-12 Pipe Removed

Sta. 7+00 Resurface With T-55 + 1½ Asph. 30'

Sta. 7+66 End Flare

1-A — 1-D — 4-A — 2-D — 2-G — 4-D — 6-D — 4-G — 8-D

JOSEPH F. KOHLER

JOSEPH F. KOHLER

E-12 Pipe Removed 40 Lin. Ft.

E-12 Pipe Removed 39 Lin. Ft.

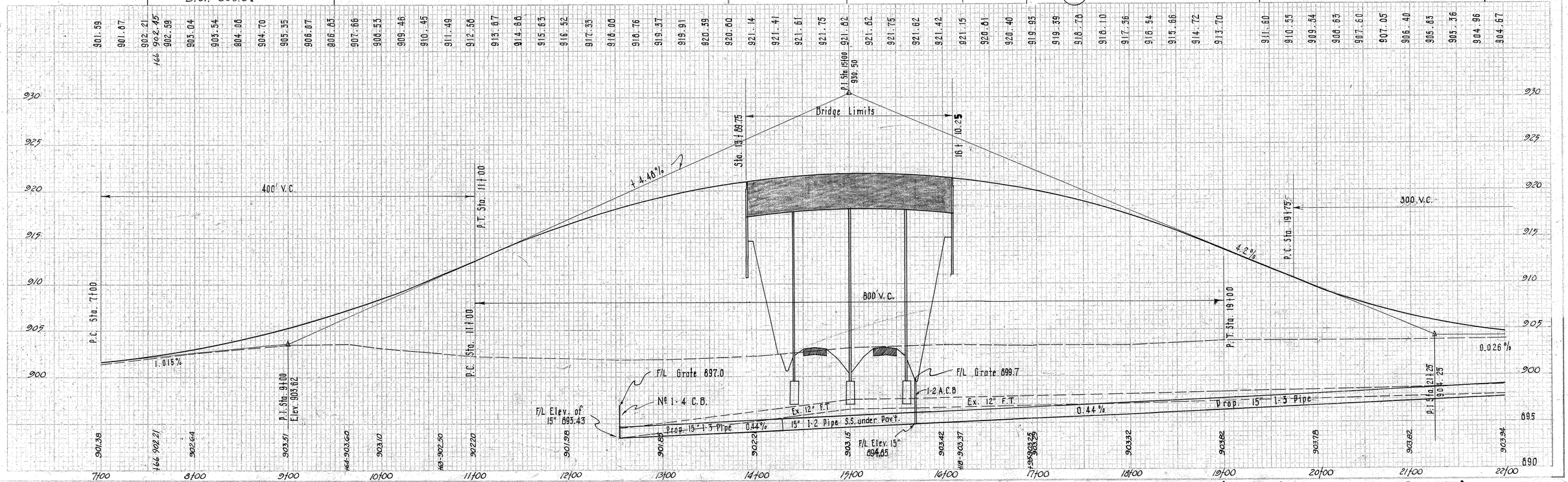
Sta. 10+00 ~ 35' Rt. Begin 100 Lin. Ft. 9' Wide Sod ~ (100 Sq. Yds.)

Sta. 16+90 ~ 60' Rt. Begin 10' of 8" 1-3 Pipe Outlet F/L 900.3

Sta. 17+00 (Middle Pike) Sta. 371+37.98 U.S.R. 24

PROPOSED STRUCTURE
TYPE: Continuous Steel Beam with Reinf. Concrete deck and substructure
SPANS: 48'-60'-60'-48' c/c brgs.
ROADWAY: 24'-0" f/f 2'-0" Safety curbs
LOAD FREQUENCY: CF = 30 (51)
SKEW: None
WEARING SURFACE: ½" Monolithic Concrete
APPR. SLABS: AS-1-54 (20' Long)
ALIGNMENT: Tangent.

BENCH MARK
B.M. R.R. Spike in ϕ Lt. Sta. 7+85
Elev. 899.04

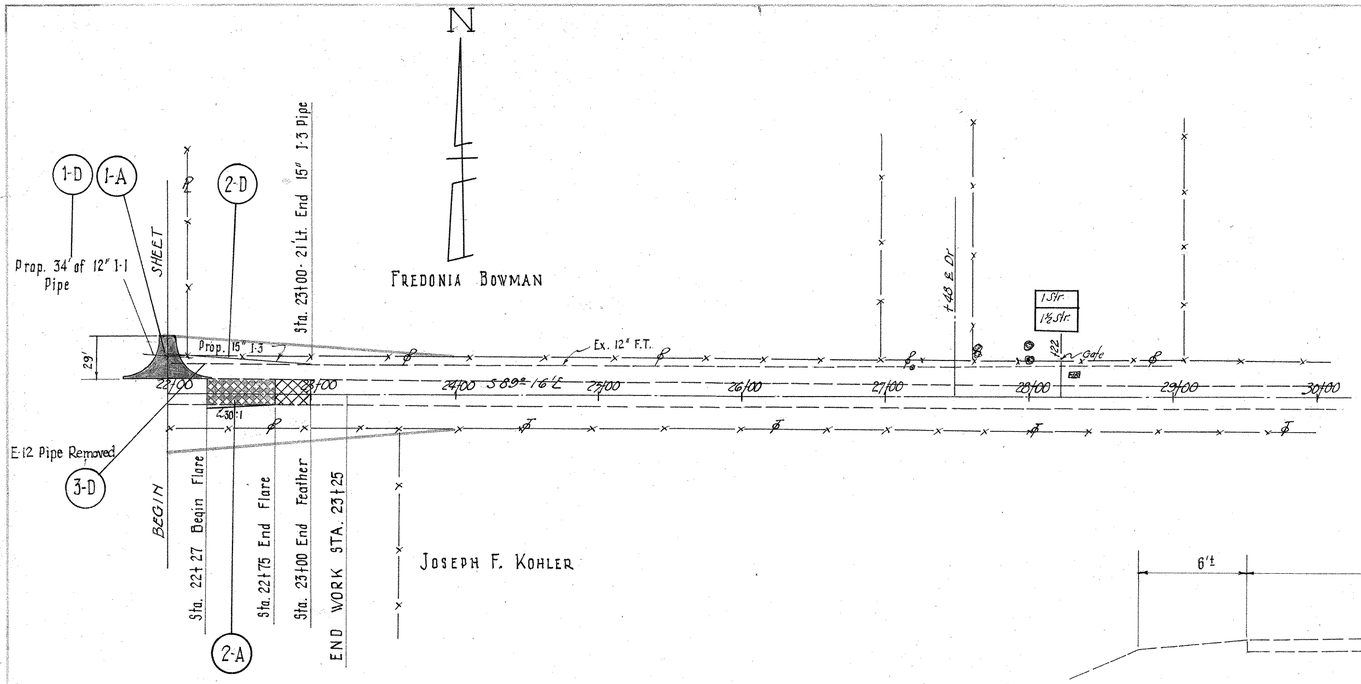


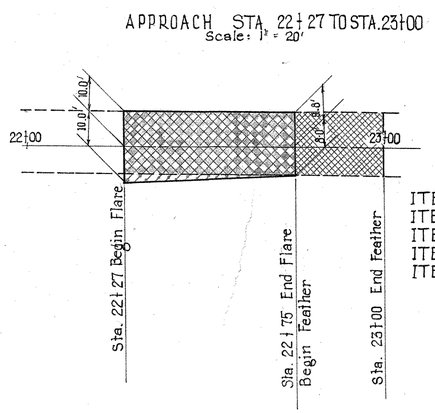
PLAN & PROFILE STA. 7+00 TO STA. 22+00 (MIDDLE PIKE)

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

227
466

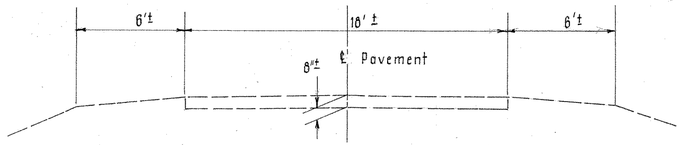
AUGLAIZE COUNTY
AUG-25-5.05





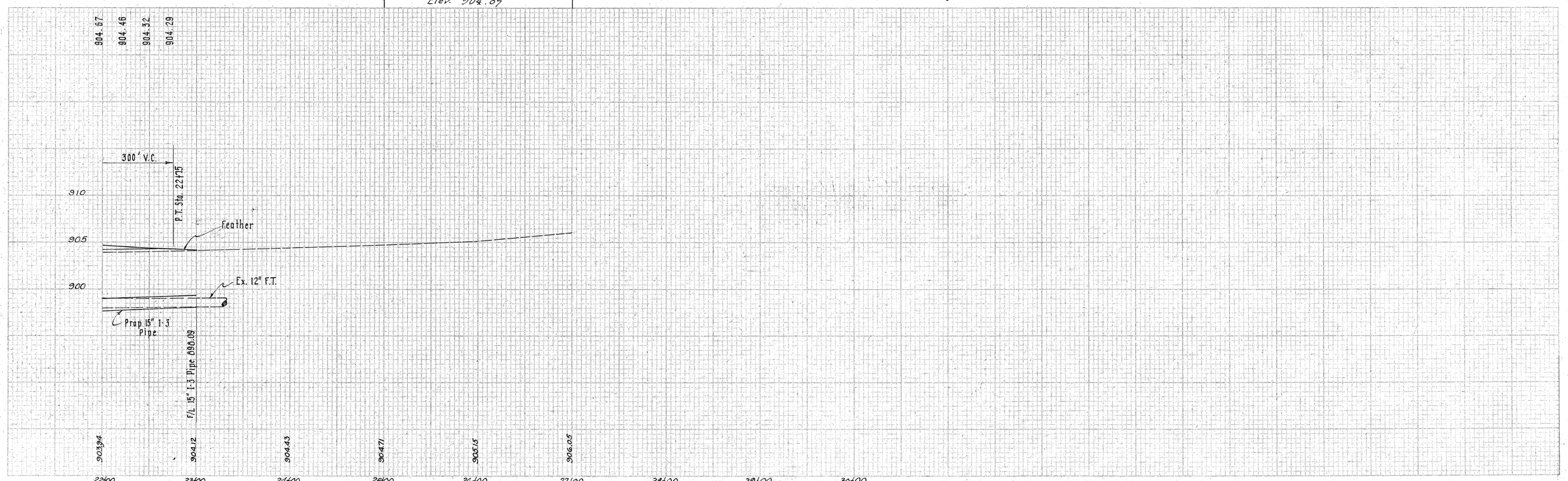
ESTIMATED QUANTITIES

ITEM	B-35	2" Asphaltic Concrete Leveling Course (70-80)	4.2 Cu.Yds.
ITEM	B-119	5" Crushed Aggregate Base Course	6.3 Cu.Yds.
ITEM	I-22	4" Subbase	2.7 Cu.Yds.
ITEM	T-30	Bituminous Prime Coat @ 0.35 Gal. Per Sq. Yd.	36.1 Gals.
ITEM	T-35	1¼ Asphaltic Concrete Surface Course Type "A" (70-80)	5.0 Cu.Yds.



TYPICAL SECTION OF ADJOINING PAVEMENT

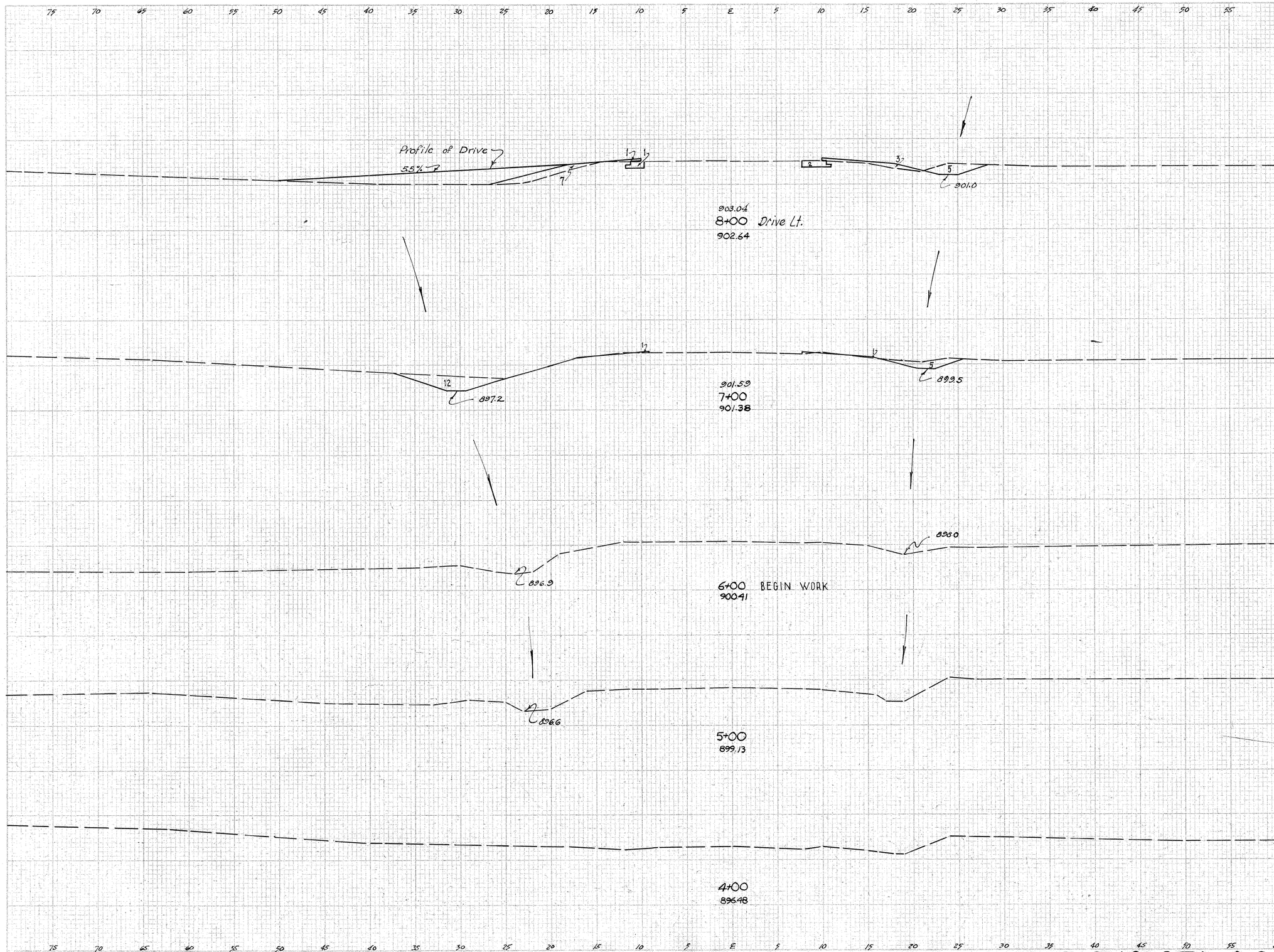
BENCH MARK
B.M. R.R. Spike in ℘ Lt. Sta. 25+40
Elev. 904.85



PLAN & PROFILE STA. 22+00 TO STA. 30+00 (MIDDLE PIKE)

FED. RD. DIVISION	STATE	PROJECT		228 466
2	OHIO			

AUGLAIZE COUNTY
AUG-25- 5.05



	End Area		Volume	
	Cut	Fill	Cut	Fill
	8	10		
Add for Drive Lt.			1	18
			46	22
	17	2		
			31	4
	0	0		
			0	0
	0	0		
			0	0
	0	0		

MIDDLE PIKE X-SECTIONS STA 4+00 TO STA 8+00

FED. RD. DIVISION	STATE	PROJECT		229
2	OHIO			466

AUGLAIZE COUNTY
AUG-25-5.05

End Area		Volume	
Cut	Fill	Cut	Fill
20	339		
65	783		
	1		28
15	84		
		43	174
		8	10

9/0.98
10+63 Fld. Dr. Lt. Abandon
902.50

339

2.95:1

2.5:1

14
℄ 899.2

6
℄ 901.5

908.53
10+00
903.10

7% Drive Grade

907.29
9+64 Res. Dr. Rt.
903.60

Add for Drive Rt.

84

11
℄ 899.5

℄ 902.0

905.35
9+00
903.51

Sta. 8+00

MIDDLE PIKE X-SECTIONS STA 9+00 TO STA 10+63

FED. RD. DIVISION	STATE	PROJECT		230
2	OHIO			466

AUGLAIZE COUNTY
AUG-25- 5.05

Back Only
293
Ahead Only

1245

Ahead
Back

35
899.4

921.00
13+89.25 to be used for Earthwork only
902.21

Ex. 12" F.T.

Prop. 15"
I-3 Pipe

1409

13
1409

919.37
13+00
901.85

Ex. 12" F.T.

22
897.5

11
899.7

Prop 15"
I-3 Pipe

1078

43
4606

916.52
12+00
901.98

9
897.5

12
900.0

10
1078

660

2.35:1

2:1

46
3218

912.58
11+00
902.32

12
898.9

37
900.5

15
660

65
1850

Sta. 10+00

20
339

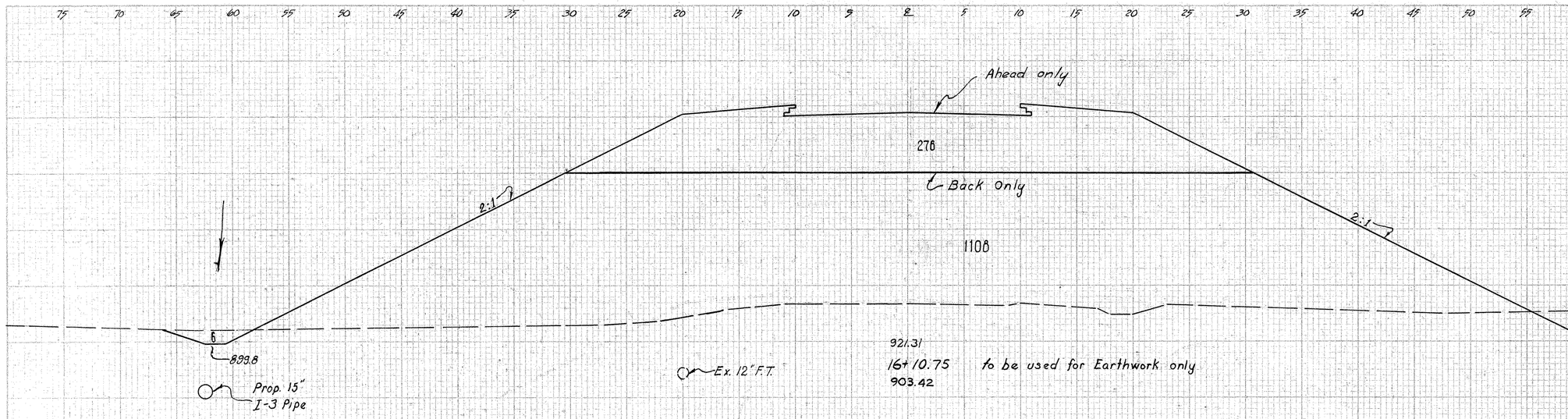
Excavation 962 Cu.Yd.
Embankment 3,821 Cu.Yd.
Emb. 15% 36594 Cu.Yd.

	End Area		Volume	
	Cut	Fill	Cut	Fill
Ahead	35	1245		
Back	35	1536		
			74	4871

MIDDLE PIKE X-SECTIONS STA 11+00 TO STA 13+89.25

FED. RD. DIVISION	STATE	PROJECT		231
2	OHIO			466

AUGLAIZE COUNTY
AUG-25- 5.05



921.31
16+10.75 to be used for Earthwork only
903.42

16+02 Assume End Area equal to End Area Sta 16+10.75 Back Only

15+81 Zero Section

14+24 Zero Section

13+98 Assume End Area equal to End Area Sta 13+89.25 Ahead Only

		End Area		Volume	
		Cut	Fill	Cut	Fill
	Ahead	38	1386		
	Back	38	1108		
				12	404
Sta 16+02		38	1386		
				15	539
		0	0		
		0	0		
				17	600
Sta. 13+98		35	1245		
				11	404
Sta. 13+89.25	Ahead Only	35	1245		

MIDDLE PIKE X-SECTIONS STA 13+98 TO STA 16+10.75

FED. AID DIVISION	STATE	PROJECT		232
2	OHIO			466

AUGLAIZE COUNTY
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75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 E 5 10 15 20 25 30 35 40 45 50 55

2:1

12
900.7
Prop 15" I-3 Pipe

2:1

972

917.36
18+00
903.32

Ex 12" F.T.

2:1

20
900.8

1279

2
900.4
Prop. 15" I-3 Pipe

Ex 12" F.T.

919.93
17+00
903.29

2:1

10
900.5

1354

2:1

4
900.1
Prop 15" I-3 Pipe

Ex 12" F.T.

920.04
16+95
903.25

2:1

14
900.2

16+18 Fld. Dr. Rt. Abandon
903.37

	End Area		Volume	
	Cut	Fill	Cut	Fill
21		972		
			61	4169
12		1279		
			3	244
16		1354		
			68	4275
Sta. 16 + 10.75			38	1386

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 E 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

MIDDLE PIKE X-SECTIONS STA 16+18 TO STA 18+00

FED. RD. DIVISION	STATE	PROJECT		233 466
2	OHIO			

AUGLAIZE COUNTY
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Prop. Profile of Dr.

Prop 34' of 12" I-1 Pipe

6 — 902.2 — Ex. 12" F.T. — Prop 15" I-3 Pipe

904.67
22+00
903.94

12 — 902.0

Add for Drive Lt.

4:1 — 6 — 901.7 — Prop. 15" I-3 Pipe — Ex. 12" F.T.

906.40
21+00
903.82

105 — 4:1 — 8 — 901.7

2.8:1 — 5.7 — 901.6 — Prop 15" I-3 Pipe — Ex. 12" F.T.

909.54
20+00
903.78

306 — 2.5:1 — 19 — 901.4

2:1 — 3.7 — 901.0 — Prop 15" I-3 Pipe — Ex. 12" F.T.

913.70
19+00
903.82

596 — 2:1 — 24 — 901.1

	End Area Cut	End Area Fill	Volume Cut	Volume Fill
			42	33
	12	21		
			5	5
			48	233
	14	105		
			70	761
	24	306		
			94	1670
	27	596		
			89	2904
Sta. 18+00	21	972		

MIDDLE PIKE X-SECTIONS STA 19+00 TO STA 22+00

FED. RD. DIV.NO.	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY
AUG - 25 - 5.05

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

27+00
906.05

26+00
905.15

25+00
904.71

24+00
904.43

End Work ~~Sta~~ 23+25

37

℄ 902.6

Prop. 15" I-3 Pipe

23+00
904.12

℄ 902.3

Sta. 22+00

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

End Area		Volume	
Cut	Fill	Cut	Fill
0	0		
		6	0
3	0		
		28	39
12	21		

MIDDLE PIKE X-SECTIONS STA 23+00 TO STA 27+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY

AUG-25-5.05

DRAINAGE TABLE

Plan & Profile Sheet No	Reference No	Detail Sheet No	Station From	Station To	Side		E-12 Pipe Removed 15" & Under Lin.Ft.	E-12 Pipe Removed 15" & Under Lin.Ft.	E-12 Pipe Removed for Storage Over 15" Lin.Ft.	E-12 Pipe Removed for Storage Over 15" Lin.Ft.	I-16 Inlets Abandoned Each	L-10 Sodding Sq.Yds.	Remarks
238	1D		113+76.5	114+20	Rt.				44				
238	2D		7+75(D)	115+94	℄					54	1	100	
238	3D		7+40(C)	427+46 ℄ US.25	℄		398						
Total To S.R. 67			Calculations									100	
Total To U.S. 25			Tables				398		44	54	1	100	

DRIVE AND APPROACH TABLE

Plan & Profile Sheet No	Reference No	Detail Sheet No	Station From	Station To	Side		B-35 Asphaltic Concrete Leveling Course Cu.Yd.	B-35 Asphaltic Concrete Base Course Cu.Yd.	B-119 Crushed Aggregate Base Course Cu.Yd.	I-18 Stabilized Crushed Aggregate Base Course Cu.Yd.	I-22 Subbase Cu.Yd.		T-30 Bituminous Prime Coat Gal.	T-35 Asphaltic Concrete Surface Course Cu.Yd.	Remarks
237	1-A		104+50	106+00	℄		10.4	4.1	14.9	18.5	18.1		23.2	11.1	
237	2-A		106+45		Rt.					4.6			12.0	1.7	M.B. Approach
237	3-A		106+45		Lt.					13.3			23.0	3.4	Drive Left
239	1-A		127+57	129+50	℄		14.1	20.8	20.2	24.9	21.8		69.8	15.0	
Total To S.R. 67 Calculations							24.5	24.9	35.1	61.3	39.9		128.0	31.2	

GUARD RAIL TABLE

Plan & Profile Sheet No	Reference	Station From	Station To		I-15 Guard Rails Steel Beam Type 'Deep' Straight Lin.Ft.	I-15 Guard Rails Steel Beam Type 'Deep' Curved (Rad.) Lin.Ft.			Remarks
238	1-G	114+24.65±	117+37	Rt.	312.5				
238	2-G	114+17±	118+16.5	Lt.	400.0				
238	3-G	6+25(C)	9+50(C)	Lt.	325.0				
238	4-G	121+55.5	31+20(A)±	Rt.	362.5				
238	5-G	122+33	125+57.5±	Lt.	325.0				
Total to U.S.25 Tables					1725.0				

APPROACH SLAB TABLE

Sheet No	Detail Sheet No	Station From	Station To	I-7 Reinforced Concrete Approach Slab T=13" as Per Plan Sq.Yd.	I-18 Stabilized Crushed Aggregate for Shoulders & Approach Cu.Yd.	I-22 Subbase Cu.Yd.	E-1 Compacted Subgrade Sq.Yds.	B-33 3" Bituminous Macadam Base Course Sq.Yds.	T-31 Bituminous Seal Coat Gal.	T-31 No6 Aggregate for Seal Coat Cu.Yd.	Remarks
238		117+67.66	117+92.66	122.2	3.7	26.5	122.2				
238		121+93.98	122+16.98	122.2	2.9	26.5	122.2	8.3	2.1	0.1	
Total to S.R. 67 Calculations					6.6	57.0	244.4				
Total to U.S. 25 Calculations				244.4				8.3	2.1	0.1	

EARTHWORK TABLE

Sheet No	STATION From	STATION To	Excavation Cu.Yd.	Embankment Cu.Yd.	Embankment +15% Cu.Yd.	Roadside Improvement L-9 Seeding & Protection Sq.Yds.
243	104+00	130+00	2414	48,760	56,074	17,615
Total to S.R. 67 Calculations			2414	48,760	56,074	17,615
Total to U.S. 25 Tables			2414			17,615

EARTHWORK CALCULATION

Embankment 15% = 56,074 Cu.Yd.
Excavation available to reduce Borrow = 2414 Cu.Yd.
Total = 53,660 Cu.Yd.
Net Borrow required for S.R. 67 forwarded To U.S. 25 Calculations 53,660 Cu.Yd.

ITEM T-35 ASPHALTIC CONCRETE SURFACE COURSE (TYPE "A" '70-'60)

From Typical Section No 1 = 264.66 Lin.Ft.
27'x 49'x 1.25/12 ÷ 27 = 5.1 Cu.Yd.
231.44x 45'x 1.25/12 ÷ 27 = 40.2 Cu.Yd.
From Typical Section No 2 = 632.57 Lin.Ft.
37.03 x 24.86 x 1.25/12 ÷27 = 3.6 Cu.Yd.
200.0 x 36.39 x 1.25/12 ÷ 27 = 28.1 Cu.Yd.
62.97x 49.12x 1.25/12 ÷ 27 = 11.9 Cu.Yd.
43.47x 51.99 x 1.25/12 ÷ 27 = 8.7 Cu.Yd.
84.25 x 52' x 125/12 ÷ 27 = 16.9 Cu.Yd.
21.18 x 30' x 1.25/12 ÷ 27 = 2.5 Cu.Yd.
179.0 x 27' x 1.25/12 ÷ 27 = 18.6 Cu.Yd.
From Typical Section No 3 = 631.45 Lin.Ft.
631.45 x 24' x 1.25/12 ÷ 27 = 58.5 Cu.Yds
From Typical Section No 4 = 177.00 Lin.Ft.
177.00 x 24' x 1.25/12 ÷ 27 = 16.4 Cu.Yds.
From Drive & Approach Table 31.2 Cu.Yds.
Total 241.7 Cu.Yds.
Total to U.S.25 Calculations 241.7 Cu.Yd.

ITEM B-35 ASPHALTIC CONCRETE LEVELING COURSE (70-60)

From Typical Section No 1 = 264.66 Lin.Ft.
27'x 49'x 1.25/12 ÷ 27 = 5.1 Cu.Yd.
231.44' x 45'x 1.25/12 ÷ 27 = 40.2 Cu.Yd.
From Typical Section No 2 = 632.57 Lin.Ft.
37.03 x 24.86 x 1.25/12 ÷ 27 = 3.6 Cu.Yd.
200.0x 36.39 x 1.25/12 ÷ 27 = 28.1 Cu.Yd.
62.97 x 49.12 x 1.25/12 ÷ 27 = 11.9 Cu. Yd.
43.47x 51.99 x 1.25/12 ÷ 27 = 8.7 Cu. Yd.
84.25x 52 x 1.25/12 ÷ 27 = 16.9 Cu. Yd.
21.18 x 30 x 1.25/12 ÷ 27 = 2.5 Cu. Yd.
179.0 x 27 x 1.25/12 ÷ 27 = 18.6 Cu. Yd.
From Typical Section No 3 = 631.45 Lin.Ft.
631.45 x 24' x 1.25/12 ÷ 27 = 58.5 Cu.Yd.
From Typical Section No 4 = 177.00 Lin.Ft.
177.00 x 24'x 1.25/12 ÷ 27 = 16.4 Cu. Yd.
From Drive & Approach Table 24.5 Cu.Yd.
Total 235.0 Cu.Yd.
Total to U.S.25 Calculations 235.0 Cu.Yd.

ITEM B-35 ASPHALTIC CONCRETE BASE COURSE

From Typical Section No 1 = 264.66
27'x 49.5' x 3/12 ÷ 27 = 12.4 Cu.Yd.
231.44x 45.5 x 3/12 ÷ 27 = 97.5 Cu.Yd.
From Typical Section No 2 = 632.57 Lin.Ft.
37.03 x 25.36 x 3/12 ÷ 27 = 8.7 Cu.Yd.
200.0 x 36.89 x 3/12 ÷ 27 = 66.5 Cu.Yd.
62.97x 49.62x 3/12 ÷ 27 = 28.9 Cu.Yd.
43.47x 52.09 x 3/12 ÷ 27 = 21.0 Cu.Yd.
84.25 x 52.5 x 3/12 ÷ 27 = 41.0 Cu.Yd.
21.18 x 30.5 x 3/12 ÷ 27 = 6.0 Cu.Yd.
179.0 x 27.5 x 3/12 ÷ 27 = 45.6 Cu.Yd.
From Typical Section No 3 631.45 Lin.Ft.
631.45 x 24.5 x 3/12 ÷ 27 = 143.2 Cu.Yd.
From Typical Section No 4 = 177.00 Lin.Ft.
Estimated Quantity 37.6 Cu.Yd.
From Drive & Approach Table 24.9 Cu.Yd.
Total 535.1 Cu.Yd.
Deductions
Sta. 106+00 to 110+65 = 465 Lin.Ft.
Sta. 113+12 to 114+19 = 107 Lin. Ft.
Sta 113+91 to 114+13 = 22 Lin. Ft.
Sta 121+96 to 124+24 = 228 Lin. Ft.
Sta. 125+38 to Sta. 127+23 = 185 Lin. Ft.
TOTAL = 1007 Lin. Ft.
1007 x .25 x 3/12 ÷ 27 2.8 Cu.Yd.
Net Total 532.3 Cu.Yd.
Total to U.S.25 Calculations 532.3 Cu.Yd.

ITEM B-119 CRUSHED AGGREGATE BASE COURSE

From Typical Section No 1 = 264.66 Lin.Ft.
27 x 50.5 x 8/12 ÷ 27 = 35.7 Cu.Yd.
231.44x 46.5x 8/12 ÷ 27 = 265.7 Cu.Yd.
From Typical Section No 2 = 632.57 Lin.Ft.
37.03 x 26.36 x 8/12 ÷ 27 = 24.1 Cu.Yd.
200.0 x 37.89 x 8/12 ÷ 27 = 167.1 Cu.Yd.
62.97 x 50.62 x 8/12 ÷ 27 = 76.7 Cu. Yd.
43.47 x 53.09 x 8/12 ÷ 27 = 57.0 Cu. Yd.
84.25x 53.5 x 8/12 ÷ 27 = 111.3 Cu. Yd.
21.18 x 31.5 x 8/12 ÷ 27 = 16.5 Cu. Yd.
179.0 x 28.5 x 8/12 ÷ 27 = 126.0 Cu. Yd.
From Typical Section No 3 = 631.45 Lin.Ft.
631.45 x 25.5 x 8/12 ÷ 27 = 397.6 Cu.Yd.
From Typical Section No 4 = 177.00 Lin.Ft.
Estimated Quantities 95.1 Cu.Yd.
From Drive & Approach Table 35.1 Cu.Yd.
Total 1427.9 Cu.Yd.
Deductions: Total Length taken from B-35
Base Course Calculations = 1007 Lin. Ft.
1007 x 75'x 8/12 ÷ 27 = 18.6 Cu.Yd.
Net Total 1409.3 Cu.Yd.
Total to U.S.25 Calculations 1409.3 Cu.Yd.

ITEM I-22 SUBBASE

From Typical Section No 1 = 264.66 Lin.Ft.
27 x 51.5x 8/12 ÷ 27 34.3 Cu.Yd.
231.44 x 47.5 x 8/12 ÷ 27 = 271.4 Cu.Yd.
From Typical Section No 2 632.57 Lin.Ft.
37.03 x 27.36 x 8/12 ÷ 27 = 25.0 Cu.Yd.
200.0 x 38.89 x 8/12 ÷ 27 = 192.0 Cu.Yd.
62.97x 51.62 x 8/12 ÷ 27 = 80.3 Cu.Yd.
43.47 x 54.09 x 8/12 ÷ 27 = 56.1 Cu.Yd.
84.25 x 54.5 x 8/12 ÷ 27 = 113.4 Cu.Yd.
21.18 x 32.5 x 8/12 ÷ 27 = 17.0 Cu.Yd.
179.0 x 29.5 x 8/12 ÷ 27 = 130.4 Cu.Yd.
From Typical Section No 3 - 631.45 Lin. Ft.
631.45 x 26.5 x 8/12 ÷ 27 = 413.2 Cu.Yd.
From Typical Section No 4 = 177.00 Lin. Ft.
Estimated Quantity = 60.4 Cu.Yd.
From Drive & Approach Table = 39.9 Cu.Yd.
From Approach Slab Table 57.0 Cu.Yd.
Total = 1512.4 Cu.Yd.
Deductions: Total length taken From B-35
Base Course Calculations 1007 Lin. Ft.
1007 x 1.25 x 8/12 ÷ 27 = 31.1 Cu.Yd.
Net Total 1481.3 Cu.Yd.
Total to U.S.25 Calculations 1481.3 Cu.Yd.

ITEM I-18 STABILIZED CRUSHED AGGREGATE For Shoulders & Approaches

From Typical Section No 1 523.1 Lin.Ft.
523.1 x 4 x 8/12 ÷ 27 38.7 Cu.Yd.
From Typical Section No 2 = 1067.43 Lin.Ft.
Deduct Sta. 113+12 to Sta. 114+19 = 104 Lin.Ft.
Sta 113+91 to Sta 114+13 = 22 Lin.Ft.
Net Total = 941.43 Lin.Ft.
941.43 x 4' x 8/12 ÷ 27 = 69.7 Cu.Yd.
From Approach Sta. Table 6.6 Cu.Yd.
From Typical Section No 3 = 1262.90 Lin.Ft.
Deduct Sta. 107+10 to Sta 110+65 355.0 Lin.Ft.
Sta. 125+38 to Sta 126+90 = 152.0 Lin.Ft.
Net Total = 755.9 Lin.Ft.
755.9 x 4 x 8/12 ÷ 27 = 56.0 Cu.Yd.
From Typical Section No 4 = 344.0 Lin.Ft.
Deduct Sta. 106+00 to Sta. 107+10 = 110.0 Lin.Ft.
Sta. 126+90 to Sta. 127+23 33.0 Lin.Ft.
Net Total 201.0 Lin.Ft.
201.0 x 4 x 8/12 ÷ 27 14.9 Cu.Yd.
From Drive & Approach Table = 61.3 Cu.Yd.
Total 247.2 Cu.Yd.
Deduct for Base Protection 2421.43 Lin.Ft. x .0173 Sq.Yd. ÷ 3 Ft/yd. = 14.0 Cu.Yd.
Net Total = 233.2 Cu.Yd.
Total to U.S. 25 Calculations 233.2 Sq.Yd.

S.R. 67 TABLES & CALCULATIONS

S.R.67 CALCULATIONS (CONTINUED)

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
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ITEM T-30-BITUMINOUS PRIME COAT (Sec.M-5.7, RT2or3) or (Sec.M-5.3, MC 0or1)

From Typical Section №1 264.66 Lin. Ft.

27'x 50.5 ÷ 9 =	151.5 Sq.Yd.	
231.44 x 46.5 ÷ 9 =	1195.8 Sq.Yd.	
From Typical Section №2 632.57 Lin. Ft.		
37.03 x 26.36 ÷ 9 =	108.5 Sq.Yd.	
200.0 x 37.69 ÷ 9 =	842.0 Sq.Yd.	
62.97 x 50.62 ÷ 9 =	354.2 Sq. Yd.	
43.47 x 53.09 ÷ 9 =	256.4 Sq. Yd.	
84.25 x 53.5 ÷ 9 =	500.6 Sq. Yd.	
21.18 x 31.5 ÷ 9 =	74.1 Sq. Yd	
179.0 x 28.5 ÷ 9 =	566.8 Sq. Yd.	
From Typical Section №3 = 631.45 Lin. Ft.		
631.45 x 25.5 ÷ 9 =	1789.1 Sq. Yd.	
From Typical Section = 177.00 Lin. Ft.		
Estimated Quantity =	460.5 Sq. Yd.	
Total	6299.7 Sq. Yd.	
Deductions: Total length taken from B-35 Base Course Calculations 1007 Lin Ft x .75 ÷ 9 =	83.9 Sq. Yd.	
Net. Total	6215.8 Sq. Yd.	
6215.8 x .35 gal./sq.Yd. =	2175.5 Gal.	
From Drive & Approach Table =	128.0 Gal.	
Total	2303.5 Gal.	
Total to U.S. 25 Calculations	2303.5 Gals.	

ITEM E-1 COMPACTED SUBGRADE

From Typical Section №1 - 264.66 Lin. Ft.

27x 49 ÷ 9 =	147.0 Sq.Yd.
231.44 x 45 ÷ 9 =	1157.2 Sq.Yd.
From Typical Section №2 = 632.57 Lin. Ft.	
37.03 x 24.86 ÷ 9 =	102.3 Sq.Yd.
200. x 36.39 ÷ 9 =	808.7 Sq.Yd.
62.97 x 49.12 ÷ 9 =	343.7 Sq.Yd.
43.47 x 51.59 ÷ 9 =	249.2 Sq. Yd.
84.25 x 52 ÷ 9 =	486.6 Sq. Yd.
21.18 x 30 ÷ 9 =	70.6 Sq. Yd.
179.0 x 27 ÷ 9 =	537.0 Sq. Yd.
From Typical Section №3 = 631.45 Lin. Ft.	
631.45 x 24 ÷ 9 =	1683.9 Sq. Yd.
From Approach Slab Table =	244.4 Sq. Yd.
Total	5830.8 Sq. Yd.
Total to U.S. 25 Calculations	5830.8 Sq. Yds.

ITEM E-9 REMOVAL OF TREES AND STUMPS

Estimated 1 (one) Trees and 0 (None) Stumps to be removed and disposed of

Total to U.S. 25 Calculations Lump

ITEM E-11 WATER

From Earthwork Table =	48,760 Cu.Yd.
From B-119 Calculations	1409.3 Cu.Yd.
From I-22 Calculations	1481.3 Cu.Yd.
From I-18 Calculations	233.2 Cu.Yd.
Total	51,883.8 Cu.Yd.
51,883.8 x 5 ÷ 1000 =	259.4 M.Gal.
Total to U.S. 25 Calculations	259.4 M.Gal.

ITEM I-9 STONE UNDERDRAIN №2

Estimated 630 Lin.Ft. of I-9 Stone Underdrains to be placed Approximately 50' as directed by the Engineer.

Total to U.S. 25 Calculations 630 Lin.Ft.

ITEM L-9 COMMERCIAL FERTILIZER (10-6-4)

From Roadside Improvement Table =	17,615 Sq.Yd.
From Drainage Table - L-10 Sodding =	100 Sq.Yd.
Total =	17,715 Sq.Yd.
17,715 x 9/1000 x 20/2000 =	1.59 Tons
Total to U.S. 25 Table =	1.59 Tons

ITEM I-21 STANDARD CONCRETE MEDIAN PAV'T. TYPE 2

From Typical Section №1 = 264.66 Lin.Ft.

264.66' x 3' ÷ 9 = 88.2 Sq.Yds.

Total to U.S. 25 Calculations 88.2 Sq.Yds.

ITEM I-23 PRECAST WHITE PORTLAND CEMENT CONC. TRAFFIC DIVIDERS

Sta. 122+30.98 to Sta. 122+66.98 =	4 Traffic Dividers
Sta. 114+45 to Sta. 115+03 =	4 " "
Total to U.S. 25 Tables	8 Each

DIST. NO. DIVISION	STATE	PROJECT	
2	OHIO		

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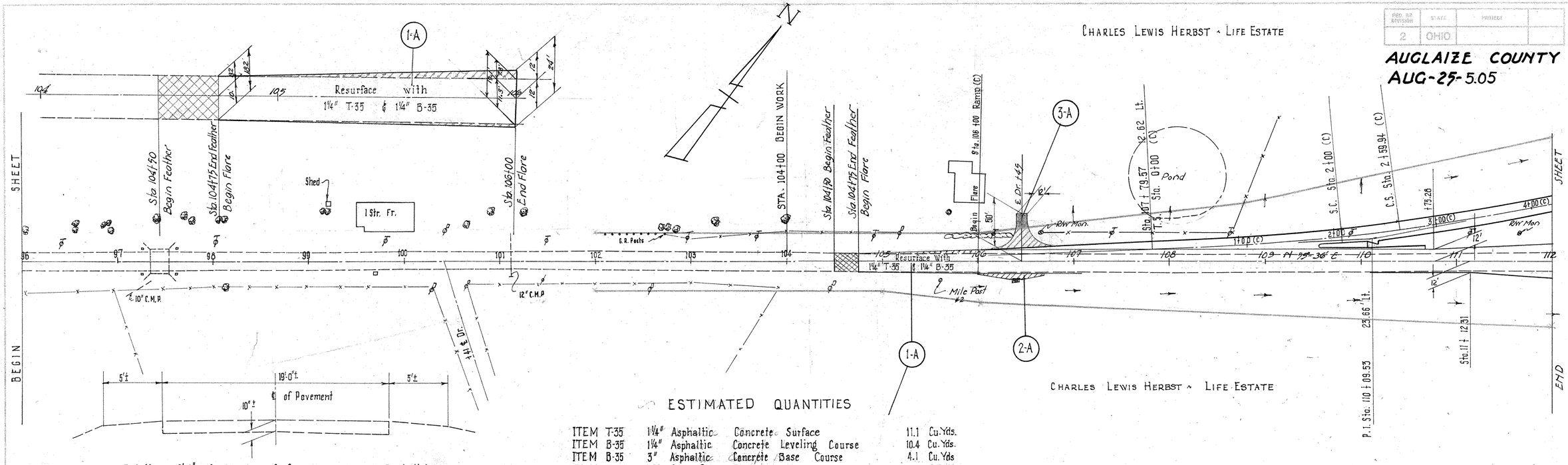
AUGLAIZE COUNTY
AUG-25-5.05

CHARLES LEWIS HERBST - LIFE ESTATE



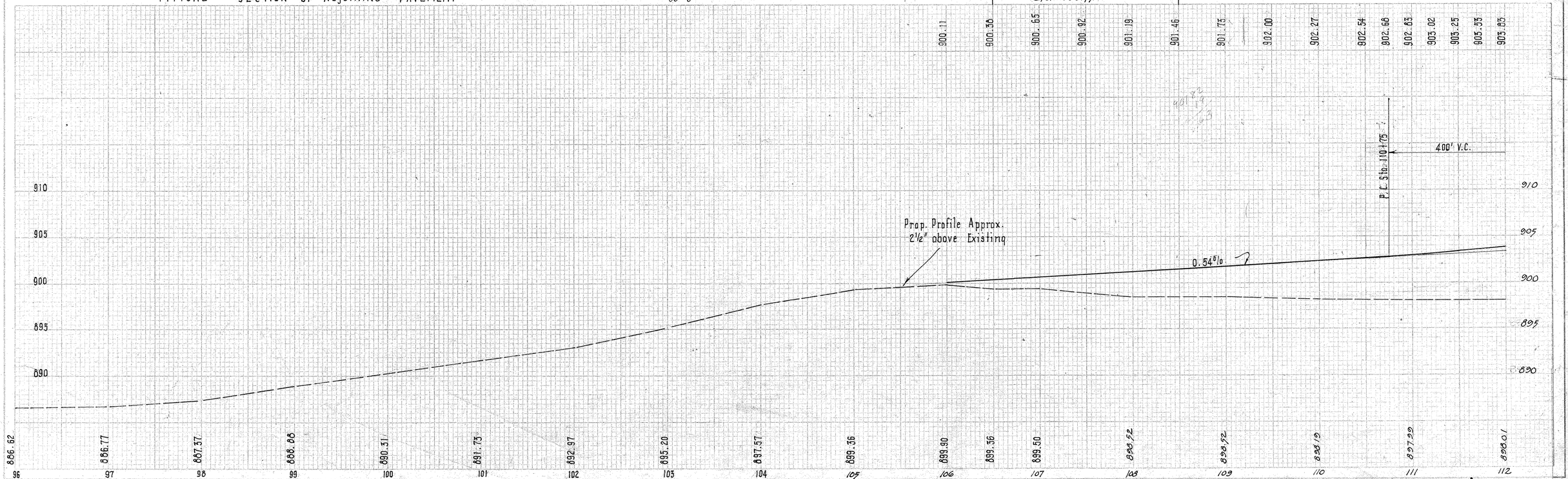
Existing 19'-0"± of Bituminous Surface (Open Graded Road Mix) on Traffic Bound Base

TYPICAL SECTION OF ADJOINING PAVEMENT

ESTIMATED QUANTITIES

ITEM T-35	1¼" Asphaltic Concrete Surface	11.1	Cu. Yds.
ITEM B-35	1¼" Asphaltic Concrete Leveling Course	10.4	Cu. Yds.
ITEM B-35	3" Asphaltic Concrete Base Course	4.1	Cu. Yds
ITEM T-30	Bituminous Prime Coat	23.2	Gals.
ITEM B-119	Crushed Aggregate Base Course	14.9	Cu. Yds.
ITEM 1-22	Subbase	18.1	Cu. Yds.
ITEM 1-18	Crushed Aggregate, Shoulders & Approaches	18.5	Cu. Yds.

BENCH MARK
B.M. R.R. Spike in ℄ Lt. of Sta. 107+50
Elev. 896.75



PLAN & PROFILE STA. 105+00 TO STA. 112+00 (EXIST. S.R. 67)

MICROFILMED
DEC 30 1986

FED. AID DIVISION	STATE	PROJECT	SHEET
2	OHIO		

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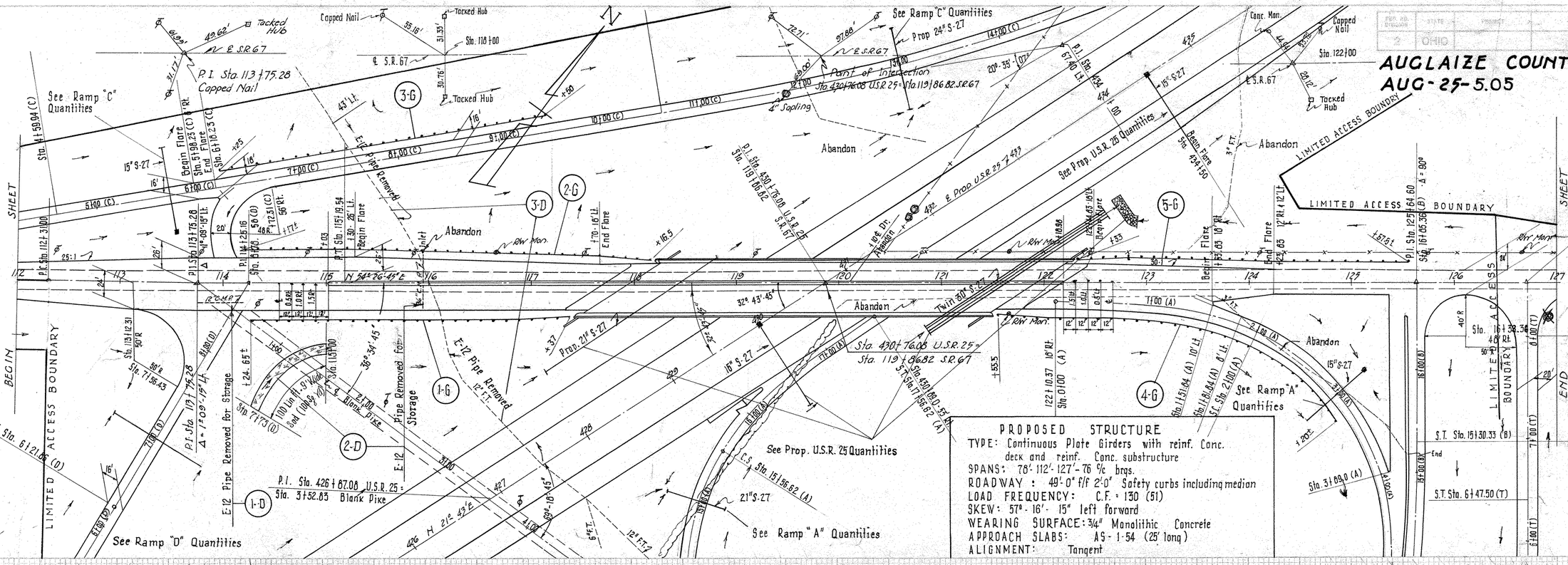
AUGLAIZE COUNTY
AUG-25-5.05


See Ramp "C" Quantities
P.I. Sta. 113+75.28
Capped Nail
Tacked Hub
Capped Nail
Tacked Hub
Sta. 118+00
See Ramp "C" Quantities
Prop 24" S-27
Point of Intersection
Sta. 430+76.08 U.S.R. 25 = Sta. 119+86.82 S.R. 67
4" Sapling
Abandon
Conc. Mon.
Capped Nail
Sta. 122+00
Tacked Hub
Begin Flare Sta. 5+98.23 (C) Rt.
End Flare Sta. 6+16.23 (C) Rt.
Begin Flare Sta. 4+34.50
End Flare Sta. 5+65.83
P.I. Sta. 119+60.82
See Prop. U.S.R. 25 Quantities
Prop. U.S.R. 25 ℄
Abandon
Twin 30" C.M.P.
Prop. 21" S-27
Prop. 15" S-27
Abandon
Abandon
Abandon
Begin Flare
End Flare
Begin Flare
End Flare
LIMITED ACCESS BOUNDARY
LIMITED ACCESS BOUNDARY
LIMITED ACCESS BOUNDARY
BEGIN
END
SHEET
SHEET
Rt. Mon.
Rt. Mon.
Rt. Mon.
E-12 Pipe Removed
E-12 Pipe Removed for Storage
E-12 Pipe Removed for Storage
E-12 Pipe Removed
Inlet
Inlet
Blank Pike
Sta. 113+00
Sta. 7+73.00 (D)
Sta. 7+56.43
Sta. 7+12.31
Sta. 6+98.00
Sta. 6+12.31
Sta. 5+98.23
Sta. 5+16.00 (D)
Sta. 4+12.31 (C)
Sta. 3+00
Sta. 1+25.16
Sta. 0+00
Sta. 11+59.94 (C)
P.I. Sta. 112+75.28
Δ = 1209'-19" Lt.
P.I. Sta. 426+67.08 U.S.R. 25 = Sta. 3+52.83 Blank Pike
P.I. Sta. 430+76.08 U.S.R. 25 = Sta. 119+86.82 S.R. 67
Sta. 430+89.0 (A)
Sta. 17+56.62 (A)
Sta. 15+56.62 (A)
Sta. 15+51.84 (A)
Sta. 18+04 (A)
Sta. 2+00 (A)
Sta. 3+89.0 (A)
Sta. 16+38.36
Sta. 16+05.36 (B)
P.I. Sta. 125+64.60
Δ = 80°
S.T. Sta. 15+30.33 (B)
S.T. Sta. 6+47.50 (T)
See Ramp "D" Quantities
See Ramp "A" Quantities
See Prop. U.S.R. 25 Quantities
See Ramp "A" Quantities
1-D
2-D
1-G
2-G
3-D
3-G
4-G
5-G
E-12 Pipe Removed for Storage
E-12 Pipe Removed
E-12 Pipe Removed
Pipe Removed for Storage
Abandon
Abandon
Abandon
Twin 30" C.M.P.
Prop. 21" S-27
Prop. 15" S-27
Prop. 15" S-27
Prop. U.S.R. 25 ℄
Prop. U.S.R. 25 ℄
Prop. U.S.R. 25 ℄

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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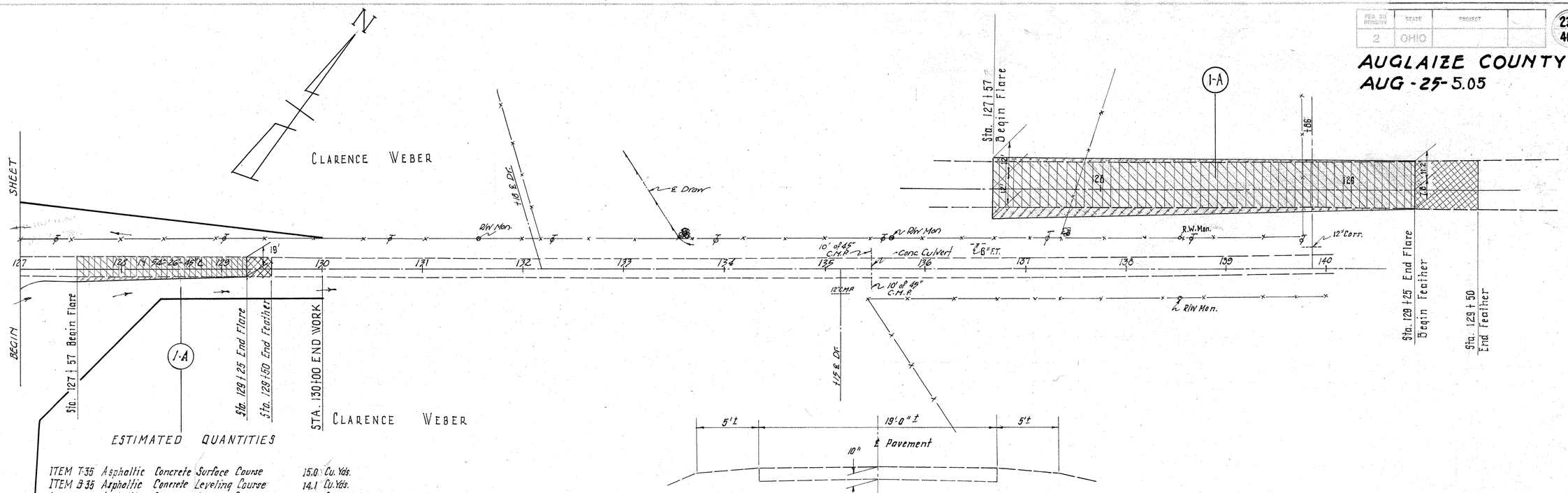


CLARENCE WEBER

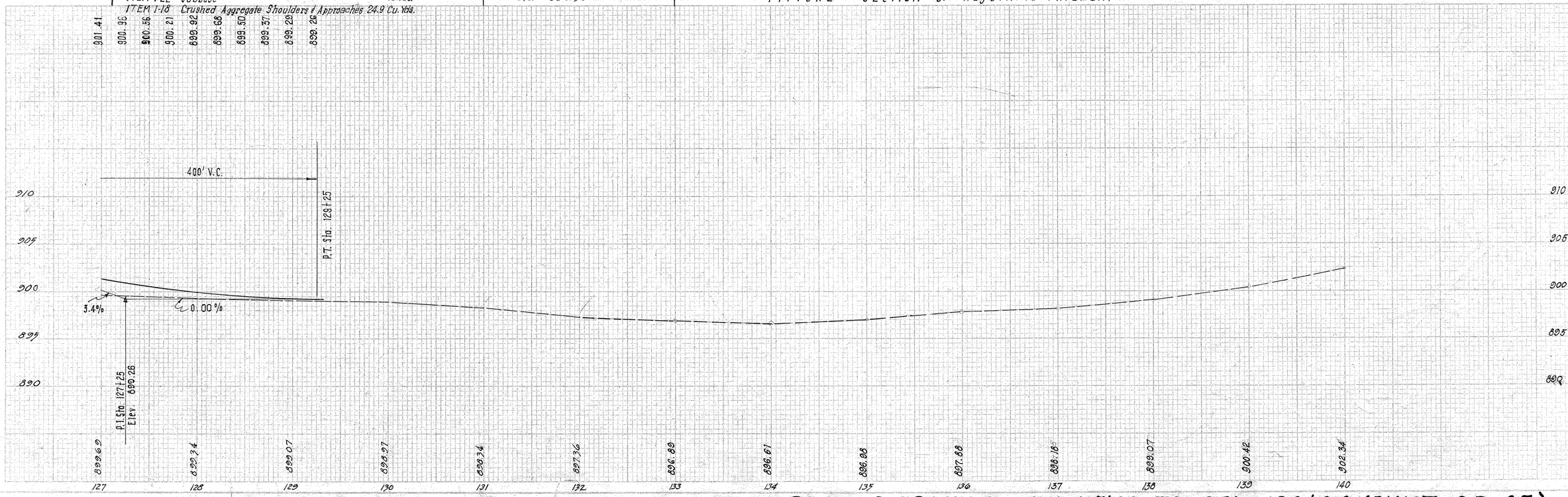
ESTIMATED QUANTITIES

ITEM T-35	Asphaltic Concrete Surface Course	15.0 Cu. Yds.
ITEM 3-35	Asphaltic Concrete Leveling Course	14.1 Cu. Yds.
ITEM B-35	Asphaltic Concrete Base Course	20.8 Cu. Yds.
ITEM T-30	Bituminous Prime Coat	69.8 Gals.
ITEM B-119	Crushed Aggregate Base Course	27.2 Cu. Yds.
ITEM 1-22	Subbase	21.8 Cu. Yds.
ITEM 1-18	Crushed Aggregate Shoulders & Approaches	24.9 Cu. Yds.

BENCH MARK
B.M. RR Spike in ø Lt Sta. 132+30
Elev: 896.39

Existing 19' of Bituminous Surface (Open Graded Road Mix) on Traffic Bound Base

TYPICAL SECTION OF ADJOINING PAVEMENT



PLAN & PROFILE STA. 127+00 TO STA. 136+00 (EXIST. S.R. 67)

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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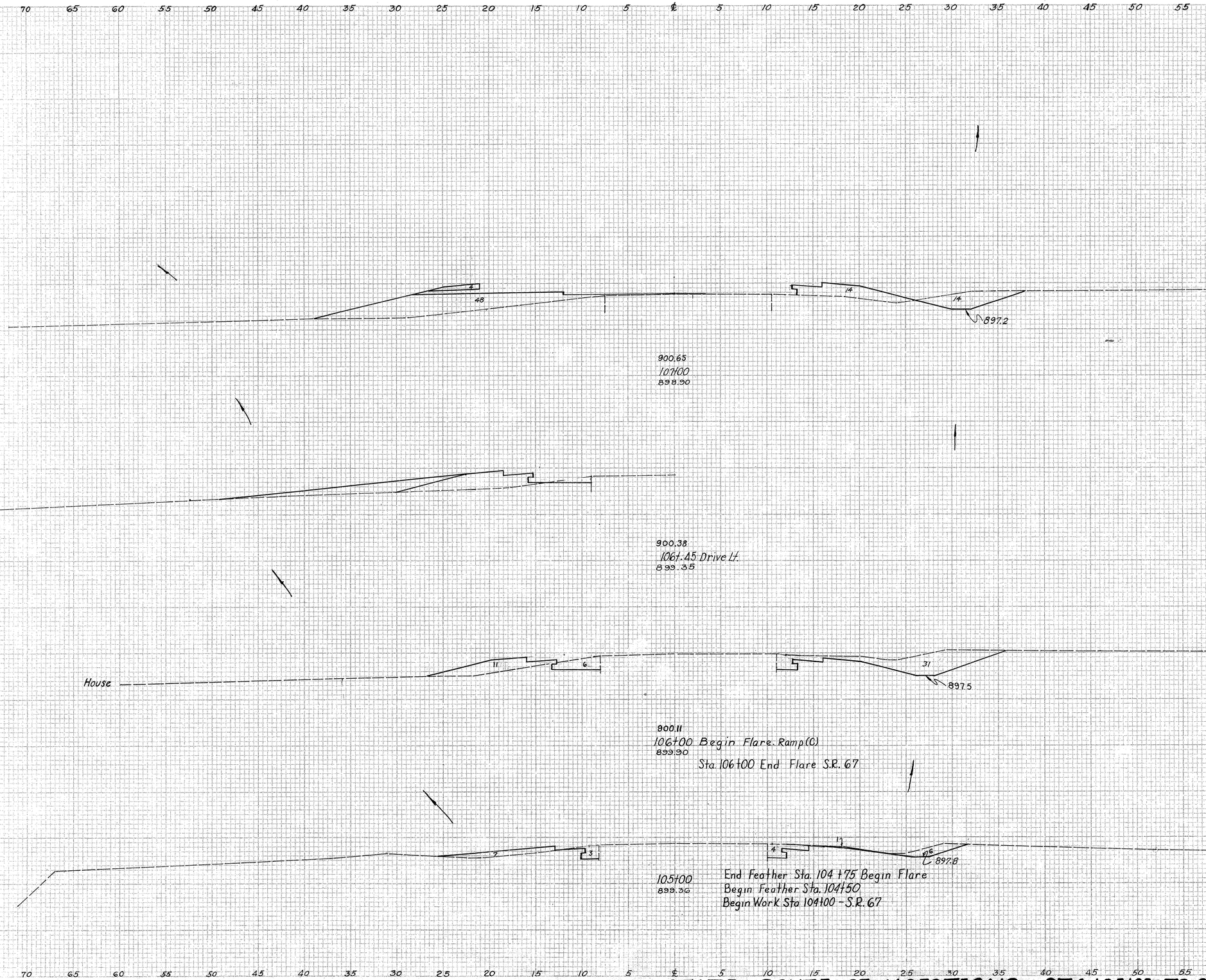
AUGLAIZE COUNTY
AUG-25-5.05



	End Area		Volume	
	Cut	Fill	Cut	Fill

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

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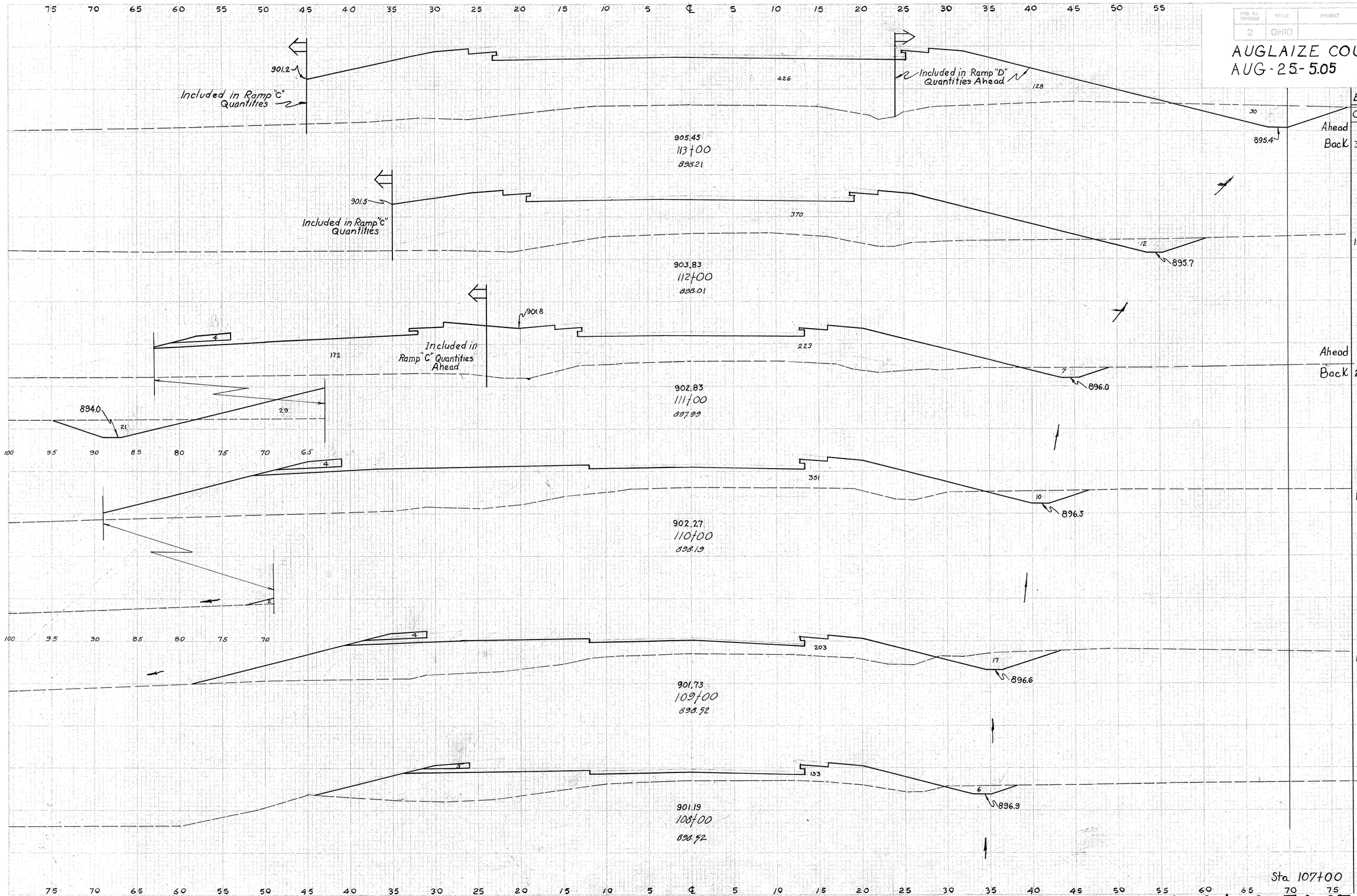
AUGLAIZE COUNTY
AUG-25-5.05



	End Area Cut	End Area Fill	Volume Cut	Volume Fill
Ahead	0	426		
Back	30	554		
			78	1711
	12	370		
			35	1098
Ahead	7	223		
Back	28	428		
			70	1454
	10	357		
			50	1044
	17	207		
			43	635
	6	136		
			37	374
Sta. 107+00	14	66		

STATE ROUTE 67 X-SECTIONS STA. 108+00 TO STA. 113+00

FED. ROAD DIVISION	STATE	PROJECT		
2	OHIO			

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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

Included in Ramp "C"

2:1

890.5

2101

913.17
116+00
895.73

2159

2:1

891.0

End Area | Volume
Cut | Fill | Cut | Fill

4 2101

1 473

Included in Ramp "C"

2:1

891.3

1 2159

Exist. 36" C.M.P.
115+94
895.69

889.4

890.2

2:1

129 6389

Included in Ramp "C"

1506

891.5

892.0

20

73 1511

910.51
115+00
896.20

53

5

80 90 100 110

Included in Ramp "C"
Quantities

Included in Ramp "D"
Quantities Back

135 4065

684

895.0

0 684

907.68
114+00
897.39

0 2056

Ahead 0 426
Sta 113+00 Back 30 554

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

STATE ROUTE 67 X-SECTIONS STA. 114+00 TO STA. 116+00

PROJ. NO. DIVISION	STATE	PROJECT	
2	OHIO		

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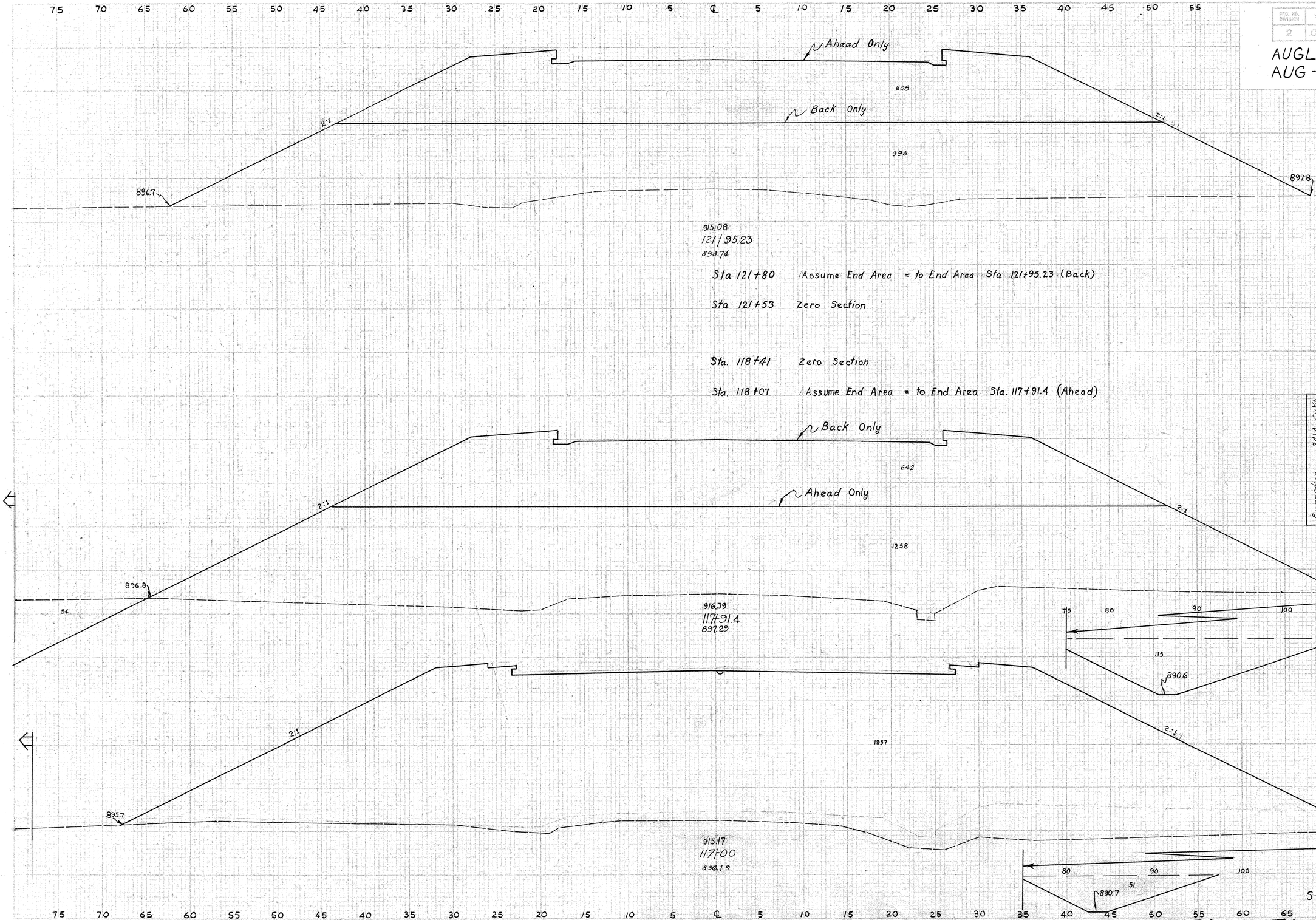
AUGLAIZE COUNTY
AUG-25-5.05



	End Area Cut	End Area Fill	Volume Cut	Volume Fill
Ahead	0	1604		
Back	0	996		
			0	562
Sta 121+80	0	996		
			0	498
Sta 121+53	0	0		
Sta 118+41	0	0		
			108	792
Sta 118+07	171	1258		
			99	727
Ahead	171	1258		
Back	171	1900		
			377	6529
			52	1957
			104	7514
Sta. 116+00	4	2101		

Excavation 2414 Cu Yds
Embankment 48,760 Cu Yds
Emb 115% 56,074 Cu Yds

Sta 121+80 Assume End Area = to End Area Sta 121+95.23 (Back)

Sta 121+53 Zero Section

Sta. 118+41 Zero Section

Sta. 118+07 Assume End Area = to End Area Sta. 117+91.4 (Ahead)

STATE ROUTE 67X-SECTIONS STA. 117+00 TO STA 121+95.23

FED. AID DIVISION	STATE	PROJECT		244
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AUGLAIZE COUNTY
AUG - 25-5.05

Included in Ramp "T" Back

900.96
127+25
899.50

Included in Ramp "T" Quantities

901.41
127+00
899.69

Included in Ramp "B"

903.44
126+12.60
900.45

Included in Ramp "B" Ahead

Included in Ramp "A"

906.91
125+00
899.48

Included in Ramp "A" Back

909.48
124+23.83
899.18

Included in Ramp "A" Quantities Ahead

911.29
123+63.83
899.06

912.95
123+00
898.53

		End Area		Volume	
		Cut	Fill	Cut	Fill
Sta 127+25	Ahead	52	311		
	Back	42	18		
				42	20
Sta 127+00		49	24		
				180	198
		62	98		
				215	842
	Ahead	41	306		
	Back	41	443		
				99	1293
		29	474		
				62	1271
	Ahead	27	670		
	Back	27	1263		
				64	3097
		27	1357		
				52	5746
Sta 121+95.23	Ahead	0	1604		
	Back	0	996		

STATE ROUTE 67 X-SECTIONS STA. 123+00 TO STA. 127+25

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
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	End Area		Volume	
	Cut	Fill	Cut	Fill
132+00				
897.36				
897.7				
131+00				
898.34				
897.8				
	0	0		
130+00 End Work				
898.97			20	35
896.0	11	19		
899.29				
129+00			81	70
899.07				
895.7	33	19		
899.92				
128+00			118	70
899.34				
	Ahead	52	31	
Sta 127+25	Back	42	18	

STATE ROUTE 67 X-SECTIONS STA. 128+00 TO STA 132+00

S.R. 67 INTERCHANGE TABLES AND CALCULATIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
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DRAINAGE TABLE

Plan & Profile Sheet No	Reference No	Detail Sheet No	Station From	Station To	Side	E-2 Excavation for Structures Cu.Yd.	E-12 Pipe Removed 15" & Under Lin.Ft.	E-12 Pipe Removed Over 15" Lin.Ft.		I-3 Outlet Pipe Lin.Ft. 8"		I-8 Std. No. 12-A Catch Basin Each	I-16 Inlets Abandoned Each	I-16 Catch Basins Abandoned Each	L-10 Sodding Sq.Yd.	S-15 Concrete for Structures Cu.Yd.	S-27 Pipe for Roadway Culverts Sec. M-6.8(b) or Sec. M-6.6(b) Lin.Ft. 15"	24"			S-27 Paved Bit. (2) Coated Corr. Metal Pipe for Roadway Culverts Lin.Ft. 18"	21"	S-27 50"x31" Sec. M-6.4(K) Pipe or 45"x29" Sec. M-206.6(b) Lin.Ft.	
248	1-D		420+90±	427+70±	Rt.		768																	
248	2-D	254	3+00(B)	4+00(B)	℄	18									100	0.60					56			
248	3-D		0+16	Cemetery Rd.	℄		36																	
248	4-D		427+50	5+75(B)±			660						1	1	224									
248	5-D	253	15+00(A)	Structure	℄	21										0.72						60		
248	6-D		14+12(A)		Rt.					10														
248	7-D	354	12+25(A)	Structure	℄	117										2.80							96	
248	8-D		8+51(A)		Rt.					10														
248	9-D		8+10(A)		Lt.					10														
248	10-D	251	3+00(A)	Structure	℄	9						1				0.26	76							
256	1-D	258	5+75(C)	Structure	℄	11						1				0.26	82							
256	2-D		11+00(C)	12+00	Rt.										100									
257	1-D		12+00(C)	13+00(C)	Rt.										100									
257	2-D		12+00(C)	13+00(C)	Lt.										100									
257	3-D	259	13+00(C)	Structure	℄	53										0.82		82						
261	1-D	262	7+00(D)	Structure	℄	31										0.52	100							
Total to U.S.25 Tables						260	1464			30		2	1	1	624	5.98	258	82			56	60	96	

EARTHWORK TABLE

Sheet No	Ramp No	Excavation Cu.Yd.	Embankment Cu.Yd.	Embank. +15% Cu.Yd.	ROADSIDE IMPROVEMENT L-9 Seeding & Protection Sq.Yd.
252	Ramp "A"	7899	7976	9172	35,592
254	Ramp "B"	4079	2163	2487	8016
259	Ramp "C"	4962	15206	17487	11,615
262	Ramp "D"	3526	4542	5223	5,520
Total to S.R.67 Interchange		20,466	29,887	34,369	60,743
Total to U.S. 25 Tables		20,466			60,743

EARTHWORK CALCULATIONS

Embankment +15% = 34,369 Cu.Yd.
Excavation available = 20,466 Cu.Yd.
Total 13,903 Cu.Yd.
Total Borrow required for S.R.67 Interchange forwarded to U.S.25 Table 13,903 Cu.Yd.

PAVEMENT QUANTITIES

Sheet No	RAMP No	I-12 Standard Concrete Curb Type 2-A Lin.Ft.	I-18 Stabilized Crushed Aggregate for Shoulders & Approaches Cu.Yd.	I-21 Standard Concrete Median Pavement Type 1 Sq.Yds	I-21 Standard Concrete Median Pav't. Type 1 As Per Plan Sq.Yd.	I-22 Subbase Cu.Yd.		B-33 Bituminous Macadam Base Course Sq.Yds.	B-35 Asphaltic Concrete Leveling Course Cu.Yd.	B-35 Asphaltic Concrete Base Course Cu.Yd.	B-119 Crushed Aggregate Base Course Cu.Yd.		T-30 Bituminous Prime Coat Gal.	T-31 Bituminous Surface Treatment: Bituminous Material Gal.	T-31 Bituminous Surface Treatment: Aggregate Cu.Yd.	T-35 Asphaltic Concrete Surface Course Cu.Yd.	T-71 Reinforced Portland Cement Concrete Pavement Sq.Yd.	E-1 Compacted Subgrade Sq.Yds.	Remarks
249	Ramp "A"	1055	151.0	180	79	1490		1207						302	9.6		4646	4646	
249	Ramp "B"	1006	104.0			789		833	0.1	0.1	0.5		0.5	206	6.7	0.1	3179	3179	
261	Ramp "D"	250	76.6		20	651		613	0.1	0.1	0.3		0.5	153	4.9	0.1	2010	2010	
257	Ramp "C"	176	159.6		23	1141		1277	0.2	0.4	1.0		1.6	319.3	10.2	0.2	3564	3564	
Total Federal to U.S. 25 Calculations		2487	491.2	180	122	4071		3930	0.4	0.6	1.8		2.6	982.3	31.4	0.4	13,399	13,399	
Total to Interchange Calculations			491.2			4071					1.8								

ITEM E-11 WATER

From Earthwork Table	=	29,887.0 Cu.Yd.
From Pav't. Table Item B-119	=	1.8 Cu.Yd.
" " " Item I-18	=	491.2 Cu.Yd.
" " " Item I-22	=	4071.0 Cu.Yd.
Total		34,451.0 Cu.Yd.
34,451 x 5 ÷ 1000 =		172.3 M.Gal.
Total to U.S.25 Calculations		172.3 M.Gal.

L-9 COMMERCIAL FERTILIZER (10-6-4)

From Roadside Improvement Table	=	60,743 Sq.Yd.
From Drainage Table L-10 Sodding		600 Sq.Yd.
Total		61,343 Sq.Yd.
61,343 x 9/1000 x 20/2000 =		5.52 Tons.
Total to U.S.25 Calculations		5.52 Tons

S.R. 67 ℄ PROPOSED U.S.R. 25 INTERCHANGE

SCALE: 1" = 100'

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
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NOTE:
R/W FENCE OPENING TO BE REVISED TO 35' WIDTH IF & WHEN R/W FENCE IS REBUILT IN FUTURE.
See letter to Harbst dated 9-17-81

℄ of S.R. 67
Begin R/W Fence +00
Begin Flare
End R/W Fence +35
Begin R/W Fence +55
T.S. Sta. 0+00 (C)
S.C. Sta. 2+00 (C)
C.S. Sta. 2+39.74 (C)
S.T. Sta. 4+39.94 (C)
P.I. Sta. 13+79.28
Δ = 16°09'15" Lt.
℄ of Ramp "C"
T.S. Sta. 10+61.49
S.C. Sta. 12+81.49 (C)
S.C. Sta. 15+49.75
S.T. Sta. 16+49.75 (C)
End Flare
End R/W Fence
℄ of Survey Prop. U.S.R. 25
R/W Fence 2
Begin R/W Fence +30
℄ of S.R. 67
Sta. 430+76.00 U.S.R. 25 =
Sta. 119+86.02 S.R. 67
End R/W Fence +00
ST Sta. 6+21.66 (A)
℄ Blank Pike
℄ of Ramp "D"
C.S. Sta. 3+71.66 (D)
S.C. Sta. 2+50 (D)
T.S. Sta. 0+00 (D)
Barn Flare
R/W Fence
℄ of Survey Prop. U.S.R. 25
R/W Fence
℄ of Cemetery Rd.
C.S. Sta. 15+56.62 (A)
S.T. Sta. 17+56.62 (A)
T.S. Sta. 0+00 (A)
S.C. Sta. 2+00 (A)
S.T. Sta. 15+30.35 (B)
C.S. Sta. 13+30.35 (B)
P.C.C. Sta. 6+55.50 (A)
S.T. Sta. 6+47.50 (T)
℄ Blank Pike - S.R. 67 Connection
S.T. Sta. 6+20.05 (B)
P.C.C. Sta. 11+77.20 (A)
S.C. Sta. 8+26.95 (B)
℄ of Ramp "A"
S.C. Sta. 3+42.67 (T)
L.A. Boundary
T.S. Sta. 1+42.67 (T)
S.C. Sta. 2+77.15 (B)
S.T. Sta. 4+77.15 (B)
℄ of Ramp "B"
℄ Cemetery Rd. - Blank Pike Connection
P.C.C. Sta. 5+00.96 (S)
C.S. Sta. 2+00 (S)
T.S. Sta. 0+00 (S)
Sta. 7+00 Cemetery Rd.
C.S. Sta. 0+97.78 (S)
S.T. Sta. 12+97.78 (S) =
Sta. 4+16.79 Blank Pike

Note: Traffic count shown is 24 hour design count based on 1955 Traffic Count to the year 1976
** without U.S.R. 33 Bypass built.
* with U.S.R. 33 Bypass built.

S.R. 67 & PROPOSED U.S.R. 25 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
AUG.-25-5.05

1. Standard Longitudinal Joint
2. Standard Key Joint without Tie Bars
3. Expansion Joint without Dowels (Located on radial lines)

DETAIL OF CURB
Scale 1" = 20'

Note: All Radii are to face of Curb
All Elevations to back of Curb, Top of Curb
Taper Curb Ends 6" to 2" in 10 ft.

Note: All Radii to face of Curb.
All Elevations to back of Curb, Top of Curb.
Taper Curb Ends 6" to 2" in 10 ft.

* All Trees & Stumps removed Along Cemetery Rd and Blank Pike included in Cemetery-Blank Pike S.R.67 Calculations

RAMP "A" ENTRANCE TO N.B. U.S.R. 25
Scale: 1" = 20'

PROPOSED U.S.R. 25 & S.R. 67 INTERCHANGE RAMPS "A" & "B"

F.A.P. RT. DIVISION	STATE	PROJECT	
2	OHIO		

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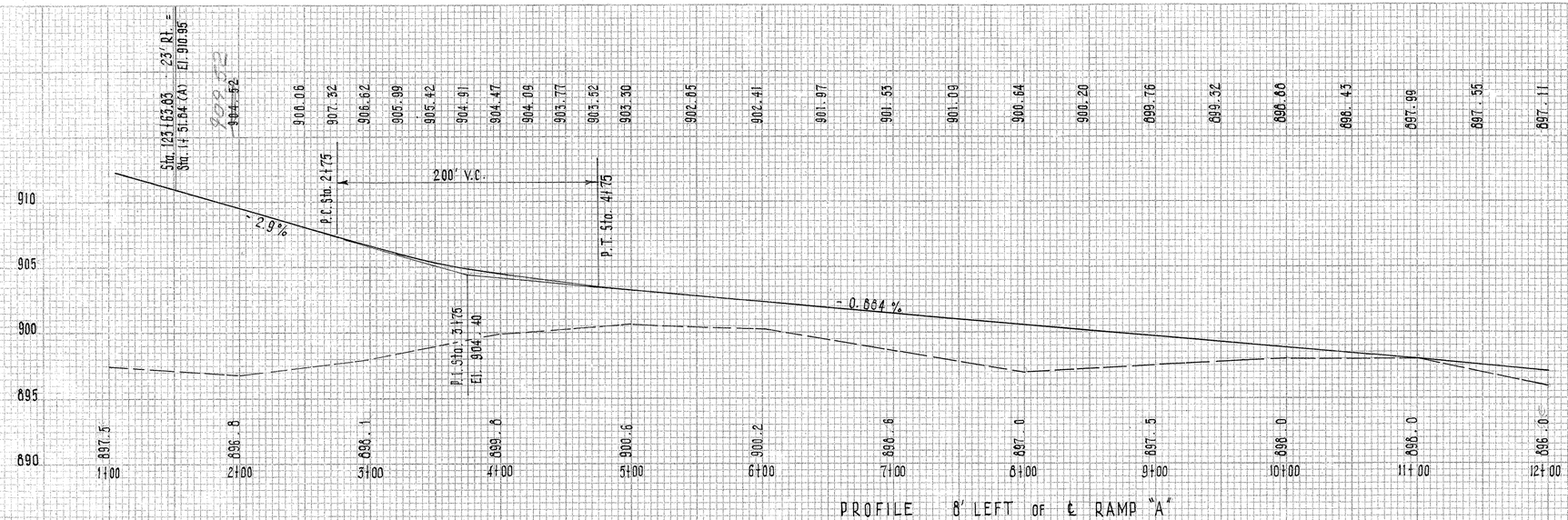
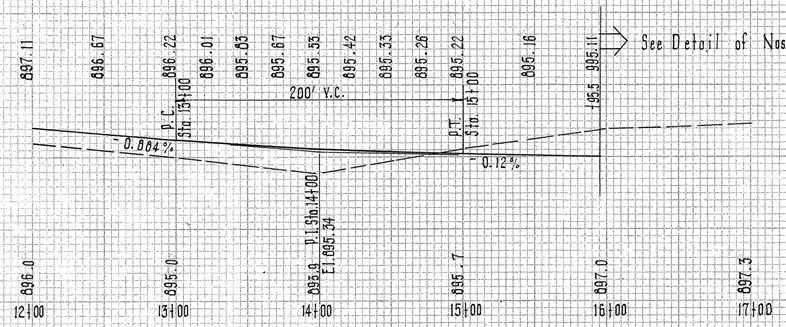
466

AUGLAIZE COUNTY
AUG-25-5.05



PROFILE 8' LEFT OF ℄ RAMP "A"



PROFILE OF RAMP "A" (continued)

ESTIMATED QUANTITIES

		Ramp "A"	Ramp "B"	
E-1	Compacted Subgrade	4646	3179	Sq.Yds.
B-33	Bituminous Macadam Base Course	1207	833	Sq.Yds.
B-35	Asphaltic Concrete Leveling Course	—	0.1	Cu.Yds.
B-35	Asphaltic Concrete Base Course	—	0.1	Cu.Yds.
T-30	Bituminous Prime Coat	—	0.5	Gal.
B-119	Crushed Aggregate Base Course	—	0.5	Cu.Yds.
T-31	Bituminous Surface Treatment - Bituminous Material	302	208	Gal.
T-31	Bituminous Surface Treatment - Aggregate	9.6	6.7	Cu.Yds.
T-35	Asphaltic Concrete Surface Course	—	0.1	Cu.Yds.
T-71	9" Reinforced Portland Cement Concrete Pavement.	4646	3179	Sq.Yds.
T-12	Standard Curb, Type 2 A	1055	1006	Lin.Ft.
T-18	Stabilized Crushed Aggregate for Shoulders & Approaches	151	104	Cu.Yds.
T-21	Standard Concrete Median Pavement, Type 1	180	—	Sq.Yds.
T-21	Standard Concrete Median Pavement, as per plan.	79	—	Sq.Yds.
T-22	Subbase	1490	769	Cu.Yds.

SUPERELEVATION TABLE
RAMP "A" PROP. U.S.R. 25 & S.R. 67

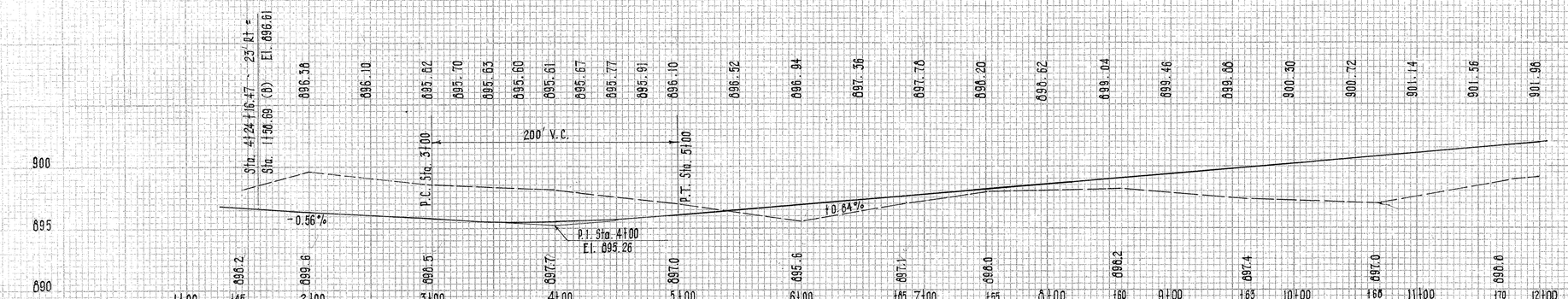
8' Lt. of ℄ Elev. Lt. Edge	Super-elevation	Station	8' Rt. of ℄ Elev. Rt. Edge	8' Lt. of ℄ Elev. Lt. Edge	Super-elevation	Station	8' Rt. of ℄ Elev. Rt. Edge
↑		0+00	914.42	898.65	1.33	10+25	897.52
Meet		+25	913.99	898.62		+29.14	897.28
S.R. 67		+50	913.15	898.43		+50	897.10
Pvmt.		+75	912.30	898.21		+75	896.88
Edge		1+00	911.45	897.99		11+00	896.66
↓		+25	910.61	897.77		+25	896.44
		+50	909.76	897.55		+50	896.22
910.95	1.23	+51.64	909.70	897.33		+75	896.00
910.25	1.30	+75	908.95	897.11		12+00	895.78
909.52	1.33	2+00	908.19	896.89		+25	895.56
908.79	↓	+25	907.46	896.67		+50	895.34
908.06		+50	906.73	896.44		+75	895.11
907.32		+75	905.99	896.22		13+00	894.89
906.62		3+00	905.29	896.01		+25	894.68
905.98		+25	904.66	895.83		+50	894.50
905.42		+50	904.09	895.67		+75	894.34
904.91		+75	903.54	895.53		14+00	894.20
904.47		4+00	903.14	895.42		+25	894.09
904.09		+25	902.76	895.33		+50	894.00
903.77		+50	902.44	895.26		+75	893.95
903.52		+75	902.19	895.22		15+00	893.89
903.30		5+00	901.97	895.19		+25	893.86
903.07		+25	901.74	895.16		+50	893.83
902.85		+50	901.52	895.15	1.33	+56.82	893.82
902.63		+52.35	901.50	895.13	1.33	+75	893.80
902.63		+75	901.30	See Detail		16+00	893.86
902.41		6+00	901.08	See Detail		+25	894.00
902.19		+25	900.86			+50	894.14
901.97		+50	900.64			+75	894.29
901.75		+75	900.42			17+00	894.44
901.53		7+00	900.20	Meet Prop		+25	894.56
901.31		+25	899.98	U.S.R. 25		+50	894.57
901.09		+50	899.76	Pvmt. Edge		+56.62	894.55
900.86		+75	899.53				
900.64		8+00	899.31				
900.42		+25	899.09				
900.20		+50	898.87				
899.98		+75	898.65				
899.76		9+00	898.43				
899.54		+25	898.21				
899.32		+50	897.98				
899.10		+75	897.77				
898.88	1.33	10+00	897.55				

PROFILE & SUPERELEVATION TABLE RAMP "A" PROP. U.S.R. 25 & S.R. 67 INTERCHANGE

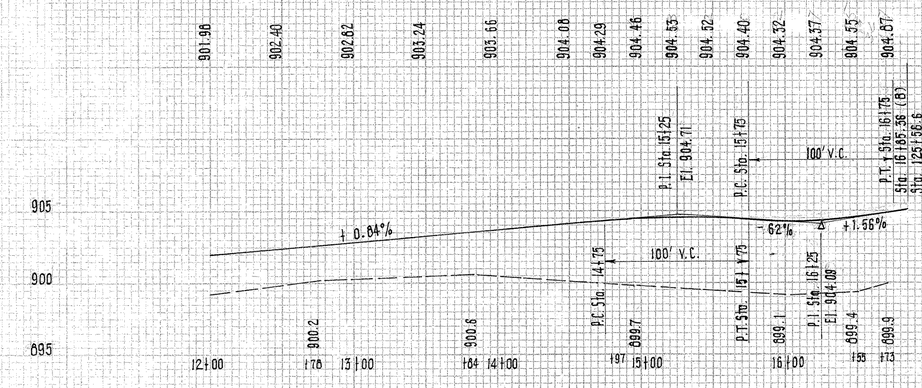
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

250
466

AUGLAIZE COUNTY
AUG - 25 - 5.05



PROFILE 8' LEFT OF ℄ RAMP "B"



PROFILE OF RAMP "B" (Continued)

SUPERELEVATION TABLE
RAMP "B" PROP. U.S.R. 25 ℄ S.R. 67

Edge Pvmt 8' Lt. of ℄	Super-elevation	Station	Edge Pvmt 8' Rt. of ℄	Edge Pvmt 8' Lt of ℄	Super-elevation	Station	Edge Pvmt 8' Rt of ℄	Edge Pvmt 17' Lt of ℄	Edge Pvmt 27' Lt of ℄
↑		0+00	897.13	901.56	1.33	11+50	902.69		
Meet		+25	896.99	901.77	↑	+75	903.10		
Prep. U.S.R.25		+50	896.74	901.98		12+00	903.31		
Pvmt Edge		+75	896.43	902.19		+25	903.52		
		1+00	896.12	902.40		+50	903.73		
		+25	895.81	902.61		+75	903.94		
↓		+50	895.50	902.82		13+00	904.15		
896.61	1.21	+56.69	895.40	903.03	↑	+25	904.36		
896.52	1.28	+75	895.24	903.07	1.33	+30.33	904.40	902.83	
896.38	1.33	2+00	895.05	903.24	1.29	+50	904.53	903.02	
896.24	↑	+25	894.91	903.45	1.20	+75	904.65	903.31	Meet
896.10		+50	894.77	903.66	1.06	14+00	904.72	903.66	Pvmt Edge
895.96	↓	+75	894.63	903.87	0.92	+25	904.79	904.02	Ramp "A"
895.95	1.33	+77.15	894.62	904.06	0.78	+50	904.86	904.3	
895.82	1.27	3+00	894.55	904.29	0.56	+75	904.87	904.62	↓
895.70	1.12	+25	894.56	904.46	0.26	15+00	904.72	904.63	904.65
895.63	0.94	+50	894.69	904.53	0.00	+25	904.53	904.55	904.45
895.60	0.81	+75	894.79	904.53	0.05	+30.33	904.42	904.53	904.41
895.61	0.67	4+00	894.94	904.52	0.16	+50	904.34	904.32	904.27
895.67	0.55	+25	895.12	904.40	0.21	+75	904.19	904.40	904.15
895.77	0.40	+50	895.37	904.32	0.25	16+00	904.07	904.32	904.07
895.91	0.26	+75	895.65	904.37	0.25	+25	904.12	904.37	904.12
895.93	0.25	+77.15	895.66						
896.10	0.16	5+00	895.94						
896.31	0.08	+25	896.23						
896.52	0.00	+50	896.52						
896.55	0.00	+53	896.55						
896.73	0.07	+75	896.81						
896.94	0.15	6+00	897.09						
897.15	0.23	+25	897.38						
897.18	0.25	+28.95	897.43						
897.36	0.33	+50	897.69						
897.57	0.47	+75	898.04						
897.76	0.64	7+00	898.42						
897.99	0.80	+25	898.79						
898.20	0.97	+50	899.17						
898.41	1.14	+75	899.55						
898.62	1.27	8+00	899.89						
898.83	1.32	+25	900.15						
898.86	1.33	+28.95	900.19						
899.04	↑	+50	900.37						
899.25		+75	900.56						
899.46		9+00	900.79						
899.67		+25	901.00						
899.88	+63	+50	901.21						
900.09	899.99	+75 +63	901.42	901.32					
900.30		10+00	901.63						
900.51		+25	901.84						
900.72		+50	902.05						
900.93		+75	902.26						
901.14		11+00	902.47						
901.35	1.33	+25	902.68						

PROFILE & SUPERELEVATION TABLE RAMP "B" PROP. U.S.R. 25 & S.R. 67

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
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70 60 50 40 30 20 10 ℄ 10 20 30 40 50

Included in Ramp "T"

90 80

902.41 901.08

92 57 4 75

4:1

897.4 896.2

6+00 (A)
900.2

Included in Ramp "T"

903.30 901.97

146 23 3 79

4:1

897.7 896.5

5+00 (A)
900.8

Included in Ramp "T"

904.47 903.14

212 12 73 5 50

4:1 4:1

898.0 896.8

Included in Ramp "B" Quantities Back

Included in Ramp "B" Quantities

906.62 905.29

4+00 (A)
899.8

423

Grate Elev. 901.9

Prop. I-8 No. 1-2-A Catch Basin Elev. 897.71

Prop. 15"x 76' S-27 Pipe For Roadway Culverts @ 0.80 %

3:1

Elev. 897.1

20 4:1

897.1

37'-0" 76'-0" 39'-0"

909.52 908.19

3+00 (A)
898.1

5

897.4

Included in S.R. 67 Quantities

911.03 909.70

6

2+00 (A)
896.6

498

897.7

1+58.8(A) Ahead Only
896.86

Prop. End Wall

0'-5" 2'-6" 2'-11" 1'-0"

2'-8"

End View

Section

Scale 1"=4'

CULVERT DATA

TYPE : 15" S-27 Pipe For Roadway Culverts P.C. 3.84
SIZE : 15" x 76'
WORK REQUIRED : Construct 15"x 76' S-27 Pipe For Roadway Culverts At Right Angles To Sta. 3+00 (A) With Standard I-8 No. 1-2-A Catch Basin 38' Ft. Lt. & Standard Endwall 39' Rt. As Shown.

Included in S.R. 67 Quantities

ESTIMATED QUANTITIES

ITEM E-2	Excavation For Structures	9 Cu. Yds
ITEM I-8	No. 1-2-A Catch Basin	1 Each
ITEM S-1	Concrete For Structures Class "E"	026 Cu. Yds
ITEM S-27	Pipe For Roadway Culverts 15" Sec. M 6.8 (b) or Sec. M 6.6 (b)	76 Lin. Ft.

	End Area Cut	End Area Fill	Volume Cut	Volume Fill
	141	96		
			450	454
	102	149		
			304	813
Ahead	62	290		
Back	50	78		
			130	935
	20	427		
			37	2226
	0	775		
			0	1141
	0	504		

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

X-SECTIONS S.R. 67 & PROP. U.S.R 25 INTERCHANGE RAMP "A"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
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Included In Ramp "B"

Included in Ramp "B" Ahead Only

12+00 (A) 895.7

11+70 (A) 896.4

11+00 (A) 898.0

10+00 (A) 898.2

9+00 (A) 897.4

8+00 (A) 897.0

7+00 (A) 898.8

Sta. 6+00

	End Area		Volume	
	Cut	Fill	Cut	Fill
	199	9		
			220	9
Ahead	197	7		
Back	215	28		
			626	55
			1491	109
			1122	278
			194	596
			194	678
			389	454
	141	96		

Excavation	7899 Cu yds
Embankment	7976 Cu yds
Embankment + 15%	9172 Cu yds
Typical Section Connected Deduct from Cut	18
Add to Fill	56

X-SECTIONS SR 67 & PROP USR 25 INTERCHANGE RAMP "A"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY
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End Area Volume	
Cut	Fill

70 60 50 40 30 20 10 ℄ 10 20 30 40 50

Included in U.S.R. 25 Quantities

17+00 (A)
897.4

895.16 893.82 305 4:1 890.0

15+55 (A) Back Only
897.00

305 4

579 8

Prop. Endwalls.
Scale 1"=4'

0.5"

2'-6"

3'-6"

1'-0"

End View

Section

CULVERT DATA

TYPE: 21" Paved Bituminous Coated Corrugated Metal Pipe For Roadway Culverts. P.C. 364

SIZE: 21"x 60'

WORK REQUIRED: Construct 21"x60' Paved Bituminous Coated Corr. Metal Pipe For Roadway Culverts At Right Angles to Sta. 15+00 With Std. Concrete Endwalls 33'-6" Lt & 26'-6" Rt. As Shown.

Included in U.S.R. 25 Quantities

895.22 893.89 263 4:1 890.1

Prop. S-27-21" Paved Bituminous Coated Corr. Metal Pipe For Rdwy. Culverts @ 0.2%

℄ 890.5 ℄ Elev. 890.34 33'-6" 14+00 (A) 893.8 60'-0" ℄ Elev. 890.2 26'-6"

263 4

Included in U.S.R. 25 Quantities

45 100 90 80

63 3:1 893.2 895.53 18 894.20 4 79 4:1 890.3

187 22

14+00 (A)
893.8

663 70

ESTIMATED QUANTITIES

ITEM	E-2	Excavation For Structures	21 Cu.Yds.
ITEM	S-1	Concrete For Structures Class "E"	0.72 Cu.Yds
ITEM	S-27	Paved Bituminous Coated Corr. Metal Pipe For Roadway Culverts 21" 60 Lin.Ft Sec. M 6.4(d)	

833 48

896.22 894.89 3 11 3 1 4 165 4:1 890.5

894.8

171 16

685 46

13+00 (A)
894.5

Sta. 12+00 199 9

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

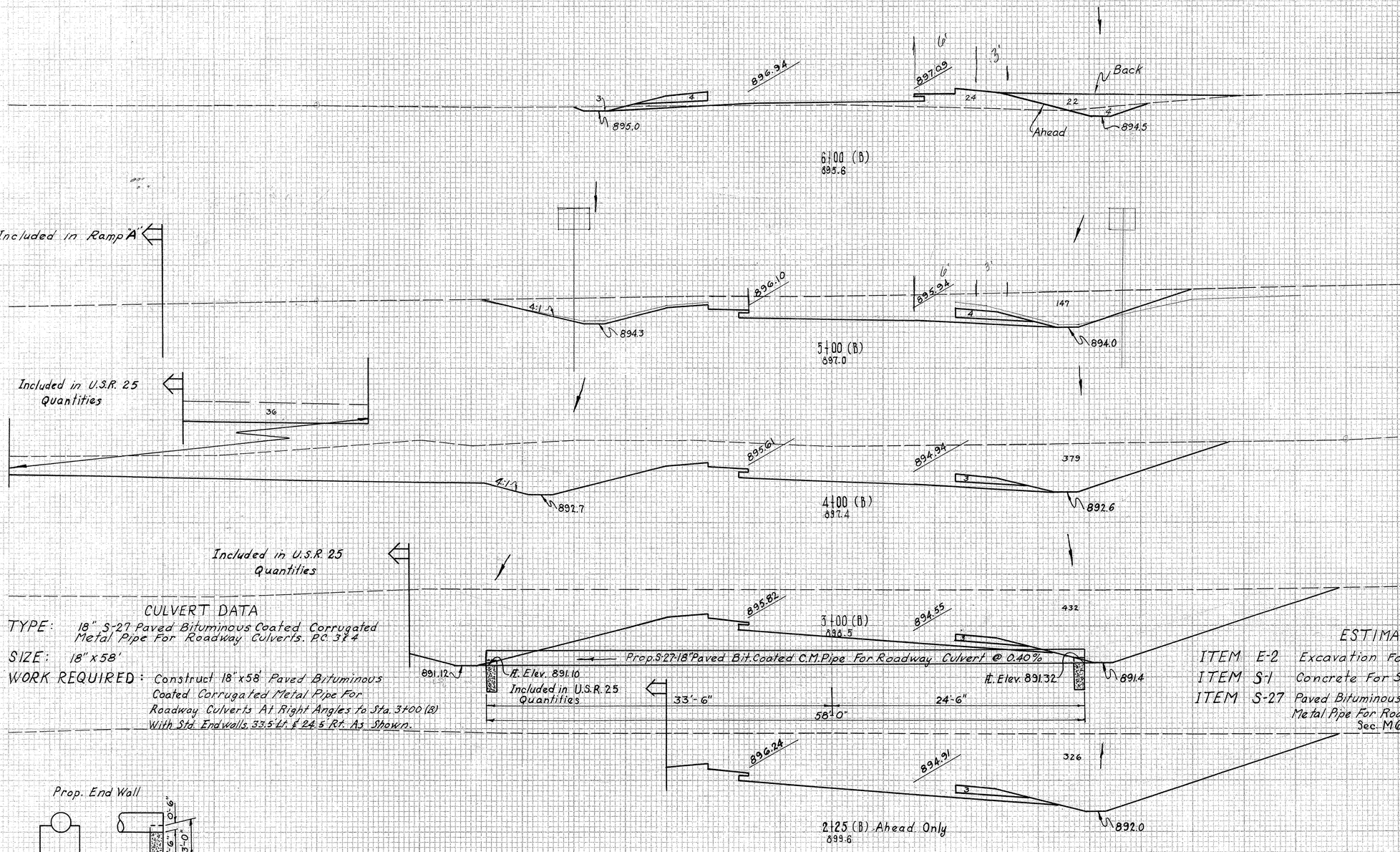
X-SECTIONS S.R.67 & PROP. U.S.R. 25 INTERCHANGE RAMP "A"

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

254
466

AUGLAIZE COUNTY
AUG-25-5.05

70 60 50 40 30 20 10 ℄ 10 20 30 40 50



	End Area Cut	End Area Fill	Volume Cut	Volume Fill
Ahead	7	28		
Back	29	28		
				326 59
	147	4		
				1041 13
	415	3		
				1569 11
	432	3		
				1053 8
	326	3		

Excavation 4079 Cu. yds.
Embankment 2163 Cu. yds.
Embankment +15% 2487 Cu. yds.

Typical Sec. Corrected
Deduct from Cut → 15
Add to Fill → 22

CULVERT DATA

TYPE: 18" S-27 Paved Bituminous Coated Corrugated Metal Pipe For Roadway Culverts. P.C. 38.4

SIZE: 18" x 58'

WORK REQUIRED: Construct 18" x 58' Paved Bituminous Coated Corrugated Metal Pipe For Roadway Culverts At Right Angles to Sta. 3+00 (B) With Std. Endwalls, 33.5 Lt. & 24.5 Rt. As Shown.

Prop. End Wall

End View Section
Scale 1"=4'

ESTIMATED QUANTITIES

ITEM E-2	Excavation For Structures	18	Cu. Yds.
ITEM S-1	Concrete For Structures Class "E"	060	Cu. Yds.
ITEM S-27	Paved Bituminous Coated Corrugated Metal Pipe For Roadway Culverts 18" Sec. M6.4(d)	58	Lin. Ft.

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

X-SECTIONS S.R. 67 & PROP. U.S.R. 25 INTERCHANGE RAMP "B"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
AUG-25-5.05

70 60 50 40 30 20 10 ℄ 10 20 30 40 50

Included In SR 67 Quantities

459

Included in Ramp "T"

	End Area Volume	
	Cut	Fill
0	459	

16+73.36 (B)
900.0

903.3

451

Included in Ramp "T"

0	309	
0	451	

16+55 (B)
899.4

902.4

904.07

904.67

Included In Ramp "A" Quantities

297

899.0

Included in Ramp "T"

3	770	
3	305	

16+00 (B)
899.2

904.65

904.72

Included in Ramp "A"

192

898.0

33	920	
15	192	

15+00 (B) Ahead Only
899.7

Included In Ramp "A" Ahead

897.64

898.19

895.7

38	5	
69	51	

6+83 (B) Back Only
897.0

Sta 6+00		
Ahead	7	28
Back	29	28

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

X-SECTIONS S.R. 67 & PROP. U.S.R. 25 INTERCHANGE RAMP "B"

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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466

AUGLAIZE COUNTY
AUG-25-5.05

CURVE DATA
Δ = 7°-47'-53"
Dc = 3°-00'
Ls = 200'
Θs = 3°
p = 0.87
k = 99.99
Xc = 199.95
Yc = 3.49'
Ts = 230.22
Δc = 1°-47'-53"
Rc = 1909.86
Lc = 60.07

CURVE DATA S.R.67
P.I. STA. 113+75.28
Δ = 1°-09'-15"
L = 288.54
D = 0°-24'
R = 14,323.95
T = 144.26
E = 0.72
P.C. = Sta. 112+31.00
P.T. = Sta. 115+19.54

AUG-25-0712
Ramp "C"
See Sheet No 258
for Details & Quantities

Note: All Radii shown are to face of Curb
All elevations at back of Curb, Top of Curb.
Taper Curb Ends 6' to 2' in 10 ft.

1 Standard Longitudinal Joint
2 Standard Key Joint Without Tie Bars
3 Expansion Joint without Dowels (Located on radial Lines)

See S.R. 67 Quantities

SHEET

END

DETAIL RAMP "C" ENTRANCE AT S.R 67
SCALE: 1" = 20'

DETAIL SHOWING PAVEMENT EDGE ELEVATIONS AT CROSS-OVER BETWEEN RAMPS "C" AND S.R. 67
SCALE: 1" = 20'

PLAN & PROFILE S.R. 67 & PROP. U.S.R 25 INTERCHANGE RAMP "C"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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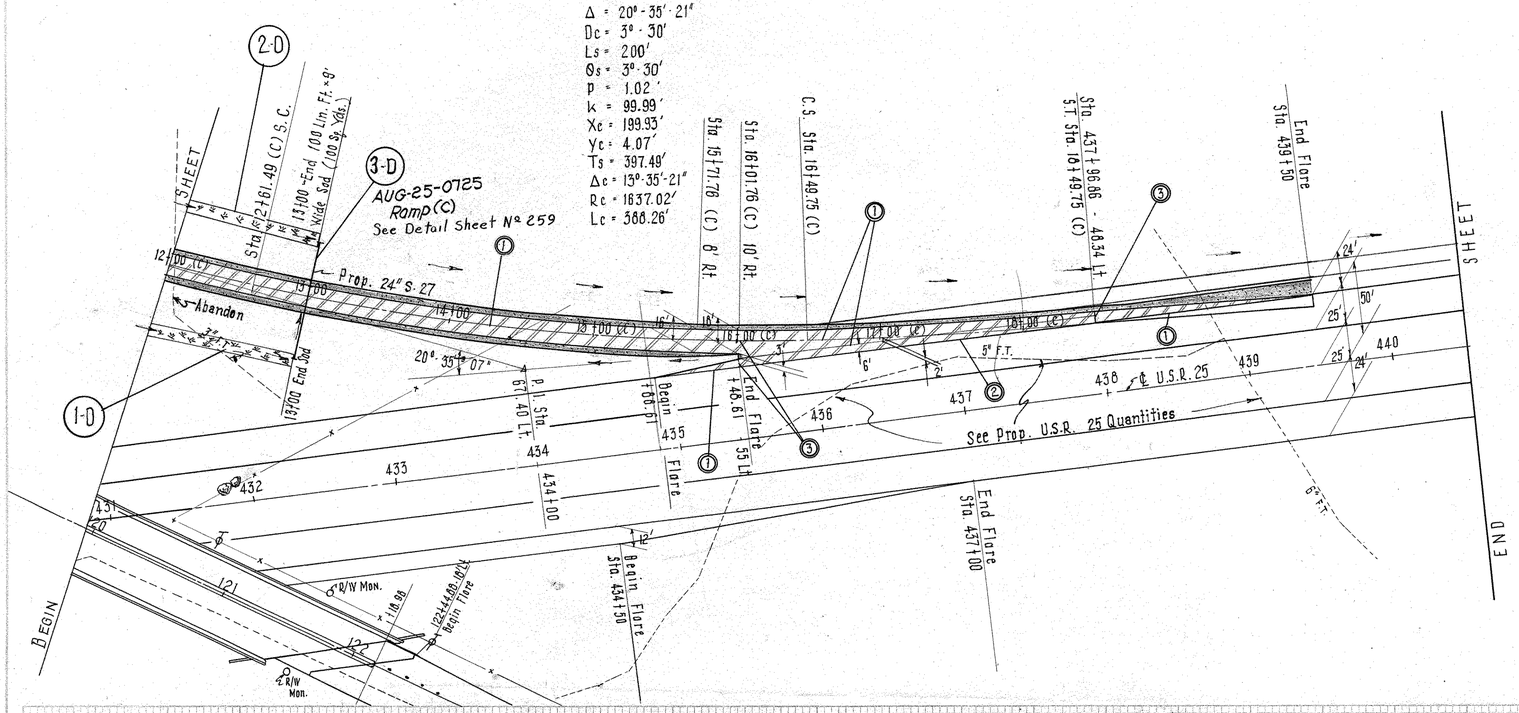
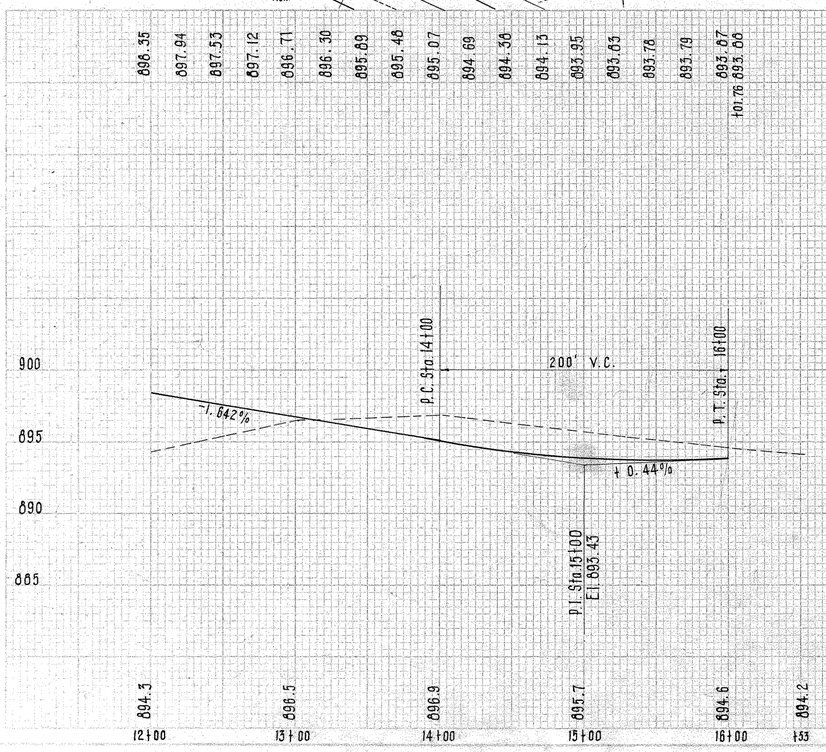
AUGLAIZE COUNTY
AUG-25-5.05

CURVE DATA
Δ = 20°-35'-21"
Dc = 3°-30'
Ls = 200'
Θs = 3°-30'
p = 1.02'
k = 99.99'
Xc = 199.93'
Yc = 4.07'
Ts = 397.49'
Δc = 13°-35'-21"
Rc = 1637.02'
Lc = 388.26'





ESTIMATED QUANTITIES

ITEM	E-1	Compacted Subgrade	3564	Sq. Yds.
ITEM	B-33	Bituminous Macadam Base Course	1277	Sq. Yds.
ITEM	T-31	Bituminous Surface Treatment Bitum. Material	319.3	Gal.
ITEM	T-31	Bituminous Surface Treatment Aggregate	10.2	Cu. Yds.
ITEM	T-71	9" Reinforced Portland Cement Concrete Pavement	3564	Sq. Yds.
ITEM	1-12	Std. Concrete Curb Type 2-A	176	Lin. Ft.
ITEM	1-18	Stabilized Crushed Aggregate Shoulders & Approaches	159.6	Cu. Yds.
ITEM	1-21	Std. Concrete Median Pavement as per Plan	23	Sq. Yds.
ITEM	1-22	Subbase	114.1	Cu. Yds.
ITEM	T-35	Asphaltic Conc. Surface Course	0.2	Cu. Yds.
ITEM	B-35	Asphaltic Conc. Leveling Course	0.2	Cu. Yds.
ITEM	B-35	Asphaltic Conc. Base Course	0.4	Cu. Yds.
ITEM	T-30	Bituminous Prime Coat	1.6	Gals.
ITEM	B-119	Crushed Aggregate Base Course	1	Cu. Yd.

SUPERELEVATION RAMP "C" - INTERCHANGE U.S.R. 25 and S.R. 67

Elevation Lt. Edge	Station	Super Elev.	Elevation Rt. Edge	Elevation Lt. Edge	Station	Super Elev.	Elevation Rt. Edge	Elevation Lt. Edge	Station	Super Elev.	Elevation Rt. Edge
900.76	0+00	↑	↑	903.74	7+25	.25	903.99	892.80	14+75	1.33	894.13
900.84	0+25	↑	↑	903.75	+50	.25	904.00	892.62	15+00	1.33	893.95
900.84	0+50	Meet	Meet	903.71	+75	.25	903.96	892.50	+25	1.33	893.83
900.80	0+75	Proposed	Proposed S.R.67	903.61	8+00	.25	903.86	892.45	+50	1.33	893.78
900.76	1+00	S.R.67	Pavm'n't.	903.49	+25	.25	903.74	892.46	+75	1.33	893.79
900.71	+25	Pavem'n't.	Edge	903.31	+50	.25	903.56	892.54	16+00	1.33	893.87
900.68	+50	Edge	↓	903.10	+75	.25	903.35	892.55	16+01.76	1.33	893.88
900.68	+75	↓		902.84	9+00	.25	903.09	892.66	+25	↑	↑
900.74	2+00	See Detail	See Detail	902.53	+25	.25	902.78	892.87	+50	Meet	Meet
900.85	+25	↓	↓	902.19	+50	.25	902.44	893.11	+75	U.S.R.25	U.S.R.25
900.86	2+28	1.14	902.00	901.80	+75	.25	902.05	893.36	17+00	Pav't.	Pav't.
900.95	+50	1.14	902.09	901.39	10+00	.25	901.64	893.61	+25	Edge	Edge
900.99	+59.94	1.14	902.13	900.98	+25	.25	901.23	893.86	+50		
901.07	+75	1.13	902.20	900.67	+50	.25	900.82	894.11	+75		
901.26	3+00	1.04	902.30	900.38	+61.49	.25	900.63	894.35	18+00		
901.51	+25	.89	902.40	900.15	+75	.26	900.41	894.56	+25		
901.76	+50	.75	902.51	899.65	11+00	.34	899.99	894.70	+49.75		
902.02	+75	.60	902.62	899.07	+25	.53	899.58				
902.27	4+00	.45	902.72	898.47	+50	.70	899.17				
902.51	+25	.31	902.82	897.88	+75	.88	898.76				
902.68	+50	.25	902.93	897.26	12+00	1.07	898.35				
902.72	+59.94	.25	902.97	896.70	+25	1.24	897.94				
902.79	+75	.25	903.04	896.21	+50	1.32	897.53				
902.89	5+00	.25	903.14	896.01	+61.49	1.33	897.34				
902.99	+25	.25	903.24	895.79	+75	1.33	897.12				
903.10	+50	.25	903.35	895.38	13+00	1.33	896.71				
903.21	+75	.25	903.46	894.97	+25	1.33	896.30				
903.31	6+00	.25	903.56	894.56	+50	1.33	895.89				
903.41	+25	.25	903.66	894.15	+75	1.33	895.48				
903.52	+50	.25	903.77	893.74	14+00	1.33	895.07				
903.63	+75	.25	903.88	893.36	+25	1.33	894.69				
903.71	7+00	.25	903.96	893.05	+50	1.33	894.38				

PLAN & PROFILE S.R. 67 & PROP. U.S.R. 25 INTERCHANGE RAMP "C"

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

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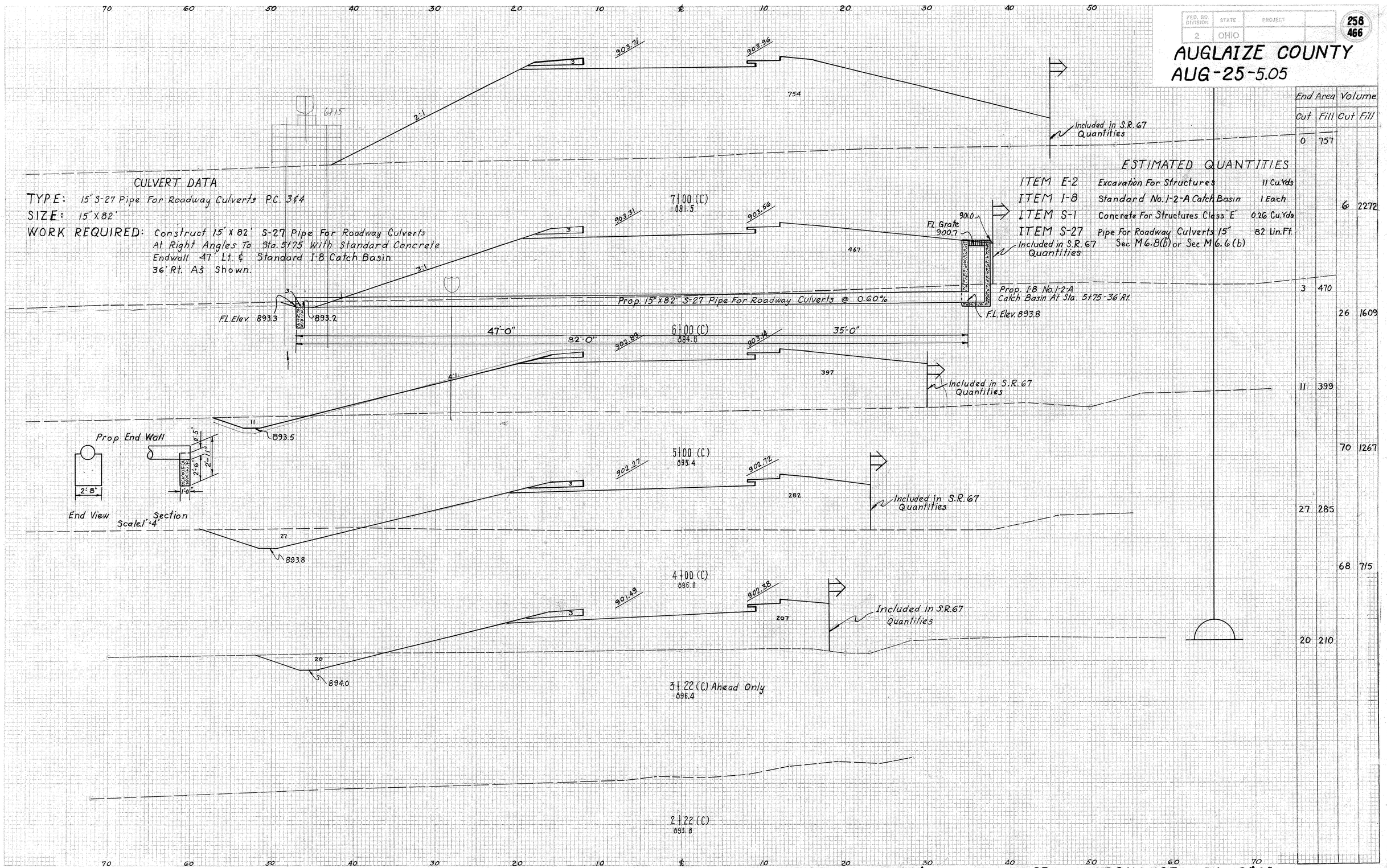
AUGLAIZE COUNTY
AUG-25-5.05

CULVERT DATA

TYPE: 15" S-27 Pipe For Roadway Culverts P.C. 3&4

SIZE: 15" X 82'

WORK REQUIRED: Construct 15" X 82' S-27 Pipe For Roadway Culverts At Right Angles To Sta. 5+75 With Standard Concrete Endwall 47' Lt. & Standard I-8 Catch Basin 36' Rt. As Shown.



ESTIMATED QUANTITIES

ITEM E-2	Excavation For Structures	11 Cu.Yds
ITEM I-8	Standard No. 1-2-A Catch Basin	1 Each
ITEM S-1	Concrete For Structures Class "E"	0.26 Cu.Yds
ITEM S-27	Pipe For Roadway Culverts 15" Sec M6.8(b) or Sec M6.6(b)	82 Lin.Ft.

End Area		Volume	
Cut	Fill	Cut	Fill
0	757		
		6	2272
3	470		
		26	1609
11	399		
		70	1267
27	285		
		68	715
20	210		

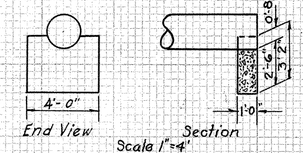
X-SECTIONS S.R. 67 & PROP. U.S.R. 25 INTERCHANGE RAMP "C"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

259
466

AUGLAIZE COUNTY
AUG-25-5.05

Prop. End Wall



CULVERT DATA

TYPE: 24" S-27 Pipe P.C. 3 & 4

SIZE: 24" X 82'

WORK REQUIRED Construct 24" S-27 Pipe At Right Angles To Sta. 13+00 (C) With Standard Concrete Endwalls 38' Lt & 44' Rt. As Shown.

12195
5860
715

ESTIMATED QUANTITIES

ITEM E-2	Excavation For STructures	53 Cu.Yds.
ITEM S-1	Concrete For Structures Class 'E'	0.82 Cu.Yds
ITEM S-27	Pipe For Roadway Culverts 24" Sec M 6.8(b) or Sec M 6.6(b)	82 Lin.Ft.

Excavation 4962 Cu.yds
Embankment 15,206 Cu.yds
Embankment + 15% 17,487 Cu.yds

Typical Section Corrected
Deduct from Cut
Add to Fill

Included in S.R. 67

Included in S.R. 67 Quantities

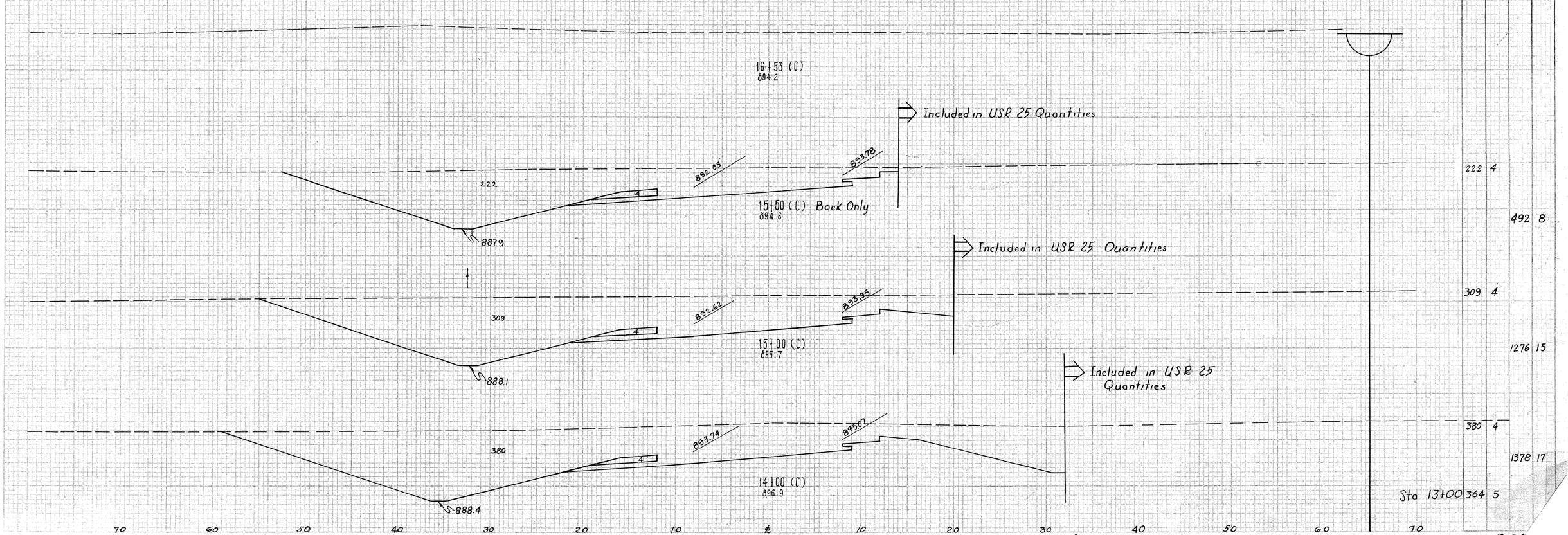
Sta.	End Area Cut	End Area Fill	Volume Cut	Volume Fill
	364	5		
			922	231
	134	120		
			359	530
	60	166		
	217	919		
	Deduct	13		
	Add	50		
	57	330		
			133	1572
	15	519		
			28	2780
	0	982		
			0	3221
Sta. 7+00	0	757		

X-SECTIONS S.R. 67 & PROP. U.S.R. 25 INTERCHANGE RAMP "C"

FED. RD. DIVISION	STATE	PROJECT		260 466
2	OHIO			

AUGLAIZE COUNTY
AUG-25-5.05

End Area		Volume	
Cut	Fill	Cut	Fill
	222		4
	492		8
	309		4
	1276		15
	380		4
	1378		17
Sta 13+00	364		5



X-SECTIONS S.R. 67 & PROP. U.S.R. 25 INTERCHANGE RAMP "C"

FED. RD. DIVISION	STATE	PROJECT		261
2	OHIO			466

AUGLAIZE COUNTY
AUG - 25 - 5.05

1. Standard Longitudinal Joint
2. Standard Key Joint without Tie Bars
3. Expansion Joint without Dowels (Located on radial Lines)

CURVE DATA
Δ = 28° 01' 48"
Dc = 7° 00'
Ls = 250'
Θs = 8° 45
p = 3.18
k = 124.90
Xc = 249.42
yc = 12.70'
Ts = 314.83
Δc = 8° 31' 48"
Rc = 818.51
Lc = 121.86'

Sta. 115+26.31
P.I. Sta. 113+75.26
Δ = 10° 09' - 15" Lt.
P.I. Sta. 114+25.16
Sta. 6+76.56 (D)
Sta. 113+12.31 End Curb
El. 905.74
El. 906.21
El. 906.32
El. 906.36
El. 906.37
El. 906.30
El. 906.16
El. 905.96
El. 905.74
El. 905.78
60' R
50° 22' 54"
Begin Curb Sta. 7+56.43 (D)
8+00 (D)
Sta. 114+25.17
7+00 (D)
Begin Flare
Sta. 416+76.17
End Flare
Sta. 417+75.17-53' Lt.
T.S. Sta. 0+00 (D)
S.C. Sta. 2+50 (D)
S.C. Sta. 5+71.88 (D)
Sta. 111+12.31
℄ R/W Mon
P.C. Sta. 112+51.00
P.I. Sta. 113+75.28
Δ 10° 09' - 15" Lt.
P.I. Sta. 114+26.18
Sta. 6+76.56 (D)
S.T. Sta. 6+21.88 (D)
Sta. 113+12.31
30' R
Sta. 7+56.43
50° 22' 54" To Tangent
12" C.M.P.
P.T. Sta. 115+19.54
Inlet
36° 34' 45"
Dike
℄ Blanix
See Detail Sheet No 262
AUG-25-0709
Ramp "D"
1-D
P.I. Sta. 426+81.08 U.S.R. 25
Sta. 3+52.83 Blanix Dike
See S.R. 67 Quantities
12" F.T.
Prop. 21' S-27 Pipe
P.I. Sta. 430+76.08 U.S.R. 25
Sta. 119+86.82 S.R. 67
C.S. Sta. 3+71.83 (D)
Note: All Radii to face of Curb.
All Elevations at back of Curb, Top of Curb.
Taper Curb Ends 6" to 2" in 10'
26° 01' 48"
P.I. Sta. 420+80.53 Lt.
= Sta. 3+14.63 (D)
415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430

Note: All Radii to face of Curb. All Elevations at back of Curb, Top of Curb
Taper curb ends 6" to 2" in 10'
3' Stab. Berm
℄ Ramp "D"
2% Sl.
El. 896.26
El. 896.23
El. 896.16
El. 897.80
Sta. 418+83
Item I-21
60'
420.66
53' Lt.
℄ South Bound Lanes
P.I. Sta. 420+80.53 Lt.
DETAIL RAMP "D" ENTRANCE TO S.B. U.S.R. 25
Scale 1" = 20'
℄ U.S.R. 25

ESTIMATED QUANTITIES

ITEM	E-1	Compacted Subgrade	2010	Sq.Yds.
ITEM	T-71	Reinforced Portland Cement Concrete Pavement	2010	Sq.Yds.
ITEM	T-31	Bituminous Surface Treatment - Bituminous Treatment	153	Gal.
ITEM	T-31	Bituminous Surface Treatment - Aggregate	4.9	Cu.Yds.
ITEM	B-33	Bituminous Macadam Base Course	613	Sq.Yds.
ITEM	I-18	Stabilized Crushed Aggregate Shoulders & Approaches	76.6	Cu.Yds.
ITEM	I-12	Std. Concrete Curb, Type 2-A	250	Lin.Ft.
ITEM	I-21	Std. Concrete Median Pavement, Type I as per Plan	20	Sq.Yds.
ITEM	I-22	Subbase	651	Cu.Yds.
ITEM	T-35	Asphaltic Concrete Surface Course	0.1	Cu.Yds.
ITEM	B-35	Asphaltic Concrete Leveling Course	0.1	Cu.Yds.
ITEM	B-35	Asphaltic Concrete Base Course	0.1	Cu.Yds.
ITEM	B-119	Crushed Aggregate Base Course	0.3	Cu.Yds.
ITEM	T-30	Bituminous Prime Coat	0.5	Gal.

897.59 897.69 897.76 897.89 898.07 898.31 898.62 898.99 899.41 900.32 901.23 902.14 903.05 903.53 904.02 904.56 905.11 905.71 906.35 906.99 907.67

P.C. Sta. 2+50 (D) El. 897.69
P.T. Sta. 4+50 (D) Elev. 899.41
200' V.C.
P.C. Sta. 6+50 (D) El. 903.07
P.T. Sta. 8+50 (D) Elev. 907.67 ℄ P'mt' S.R. 67
El. 908.80
903.51
+1.82 %
+2.80 %
-0.10 %
PROFILE 8' Rt. ℄ RAMP D
905
900
895
P.I. Sta. 3+50 (D) Elev. 897.59
P.I. Sta. 7+50 (D) El. 904.07
899.80 899.72 900.0 900.07 899.7 899.5 899.47 900.3 900.65 900.8 900.97 899.5 900.0 899.0 898.0 897.4 896.9 896.6 896.4 897.5 897.09
424 422 424 435 437 430 432 430 431
0+00 (D) 1+00 (D) 2+00 (D) 3+00 (D) 4+00 (D) 5+00 (D) 6+00 (D) 7+00 (D) 8+00 (D)

SUPERELEVATION TABLE RAMP "D" INTERCHANGE U.S.R 25 & S. R. 67

ELEV. LT. EDGE	STATION	SUPERELEV.	ELEV. RT. EDGE	ELEV. LT. EDGE	STATION	SUPERELEV.	ELEV. RT. EDGE
897.39	0+00			896.98	3+75	1.33	898.31
897.40	0+25	Meet Prop.	Meet Prop.	897.34	4+00	1.28	898.62
897.31	0+50	U.S. 25	U.S. 25	897.86	+25	1.13	898.99
897.17	0+75	Pav't Edge	Pav't Edge	898.44	+50	.97	899.41
897.03	1+00			899.02	+75	.84	899.86
896.89	+25			899.50	5+00	.73	900.32
896.76	+50			900.17	+25	.61	900.78
896.62	+75			900.75	+50	.48	901.25
896.49	2+00			901.27	+75	.41	901.68
896.30	+25	See Detail	See Detail	901.87	6+00	.27	902.14
896.36	+50	1.33	897.69	902.29	+21.86	.25	902.54
896.36	+75	1.33	897.69	902.80	+50	.25	903.05
896.43	3+00	1.33	897.76	903.28	+75	.25	903.53
896.55	+25	1.33	897.88	903.77	7+00	.25	904.02
896.74	+50	1.33	898.07	904.31	+25	.25	904.56
896.95	+71.86	1.33	898.28	904.86	+50	.25	905.11

INTERCHANGE S.R. 67 & PROP. U.S.R. 25 RAMP "D"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

262
466

AUGLAIZE COUNTY
AUG-25-5.05

CULVERT DATA

TYPE: 15" S-27 Pipe For Roadway Culverts. PC 3 #4

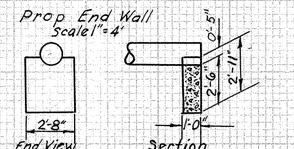
SIZE: 15" x 100'

WORK REQUIRED: Construct 15" x 100' S-27 Pipe For Roadway Culverts At Right Angles To Sta. 7+00 (D) With Standard Concrete End Walls 47'-6" Lt. & 52'-6" Rt. As Shown

ESTIMATED QUANTITIES

ITEM E-2	Excavation For Structures	311 Cu. Yds.
ITEM S-1	Concrete For Structures Class "E"	0.52 Cu. Yds
ITEM S-27	Pipe For Roadway Culverts 15" Sec M 6.8(b) or Sec M 6.6(b)	100 Lin. Ft.

Prop. End Wall
Scale 1" = 4'



X-SECTIONS INTERCHANGE S.R.67 & PROP. U.S.R. 25 RAMP "D"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

263
466

AUGLAIZE COUNTY
AUG-25-5.05

End Area Volume			
Cut	Fill	Cut	Fill
		0	835
		29	1586
		31	865
		252	2139
		Sta. 7400	105 290

70 60 50 40 30 20 10 ℄ 10 20 30 40 50

Included in S.R. 67 Quantities

835

Included in S.R. 67 Quantities

100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40

907.57
8+50.39 (D) Back Only
896.9

Included in SR67 Quantities

865

896.33
8100 (D)
897.0

8935

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

X-SECTIONS INTERCHANGE S.R.67 & PROP. U.S.R. 25 RAMP "D"

CEMETERY RD ~ BLANK PIKE; BLANK PIKE ~ S.R. 67 CONNECTIONS
TABLES AND CALCULATION

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

264
466

AUGLAIZE COUNTY
AUG-25-5.05

ITEM T-32 SEAL COAT BITUMINOUS MATERIAL

From Typical Section Nº 1
253.43' x 20' ÷ 9 = 563.2 Sq.Yd.
Add for Turnout Sta. 0+10(T) to 0.61.27(T) =
1900^{sf} ÷ 9 = 211.1 Sq.Yd.
Add for Turnouts Sta. 7+89.7(T) to Sta. 8+39.7(T)
1881.5^{sf} ÷ 9 = 209.1 Sq.Yd.

From Typical Section Nº 2
60' x 17.05' ÷ 9 = 113.7 Sq.Yd.
1772.78' x 20 ÷ 9 = 3939.5 Sq.Yd.
60' x 18.3' ÷ 9 = 122.0 Sq.Yd.
Total 5158.6 Sq.Yd.
5158.6 x 0.25 gal. per sq.yd. 1289.6 Gal.
TOTAL TO U.S. 25 CALCULATIONS 1289.6 Gal.

ITEM T-32 Nº 6 AGGREGATE FOR SEAL COAT

From Typical Section Nº 1
253.43' x 20' ÷ 9 = 563.2 Sq.Yd.
Add for Turnout Sta 0+10(T) to Sta 0+61.27(T)
1900^{sf} ÷ 9 = 211.1 Sq.Yd.
Add for Turnout Sta. 7+89.7(T) to Sta. 8+39.7(T)
1881.5^{sf} ÷ 9 = 209.1 Sq.Yd.

From Typical Section Nº 2
60' x 17.05' ÷ 9 = 113.7 Sq.Yd.
1772.78 x 20' ÷ 9 = 3939.5 Sq.Yd.
60' x 18.3' ÷ 9 = 122.0 Sq.Yd.
TOTAL 5158.6 Sq.Yd.
5158.6 x 0.008 Cu.Yd. per Sq.Yd. = 41.3 Cu.Yd.
TOTAL TO U.S. 25 CALCULATIONS 41.3 Cu.Yd.

ITEM T-32 AGGREGATE FOR CHOKE

From Typical Section Nº 1
253.43' x 20' ÷ 9 = 563.2 Sq.Yd.
Add for Turn-out Sta. 0+10(T) to Sta. 0+61.27(T)
1900^{sf} ÷ 9 = 211.1 Sq.Yd.
Add for Turn-out Sta 8+39.7(T)
1881.5^{sf} ÷ 9 = 209.1 Sq.Yd.

From Typical Section Nº 2
60' x 17.05' ÷ 9 = 113.7 Sq.Yd.
1772.78' x 20' ÷ 9 = 3939.5 Sq.Yd.
60' x 18.3' ÷ 9 = 122.0 Sq.Yd.
TOTAL 5158.6 Sq.Yd.
5158.6 x .004 Cu.Yd. per Sq.Yd. 20.6 Cu.Yd.
TOTAL TO U.S. 25 CALCULATIONS 20.6 Cu.Yd.

ITEM T-32 ROAD MIX BITUMINOUS MATERIAL

From Typical Section Nº 1
253.43 x 20' ÷ 9 = 563.2 Sq.Yd.
Add for Turn-out Sta. 0+10(T) to Sta. 0+61.27(T)
1900^{sf} ÷ 9 = 211.1 Sq.Yd.
Add for Turn-out Sta. 7+89.7(T) to Sta. 8+39.7(T)
1881.5^{sf} ÷ 9 = 209.1 Sq.Yd.

From Typical Section Nº 2
60' x 17.05' ÷ 9 = 113.7 Sq.Yd.
1772.78' x 20' ÷ 9 = 3939.5 Sq.Yd.
60' x 18.3' ÷ 9 = 122.0 Sq.Yd.
TOTAL 5158.6 Sq.Yd.
5158.6 x 0.7 Gal. per Sq.Yd. = 3611.0 Gal.
TOTAL TO U.S. 25 CALCULATIONS 3611.0 Gal.

ITEM T-32 Nº 6 AGGREGATE FOR ROAD MIX

From Typical Section Nº 1
253.43' x 20' ÷ 9 = 563.2 Sq.Yd.
Add for Turn-out Station 0+10 (T) to Sta. 0+61.27 (T)
1900^{sf} ÷ 9 = 211.1 Sq.Yd.
Add for Turnout Sta. 7+89.7 (T) to Sta. 8+39.7(T)
1881.5^{sf} ÷ 9 = 209.1 Sq.Yd.

From Typical Section Nº 2
60' x 17.05' ÷ 9 = 113.7 Sq.Yd.
1772.78' x 20' ÷ 9 = 3939.5 Sq.Yd.
60' x 18.3' ÷ 9 = 122.0 Sq.Yd.
TOTAL 5158.6 Sq.Yd.
5158.6 x 0.0375 Cu.Yd. per Sq.Yd. 193.4 Cu.Yd.
TOTAL TO U.S. 25 CALCULATIONS 193.4 Cu.Yd.

ITEM T-30 BITUMINOUS PRIME COAT

From Typical Section Nº 1
253.43' x 21' ÷ 9 = 591.3 Sq.Yd.
Add for Turnout Sta. 0+10(T) to Sta. 0+61.27(T)
1941^{sf} ÷ 9 = 215.7 Sq.Yd.
Add for Turn-out Sta. 7+89.7(T) to Sta. 8+39.7 (T)
1921.8^{sf} ÷ 9 = 213.5 Sq.Yd.

From Typical Section Nº2
60' x 18.05' ÷ 9 120.3 Sq.Yd.
1772.78 x 21' ÷ 9 4136.5 Sq.Yd.
60' x 19.3' ÷ 9 = 128.7 Sq.Yd.
TOTAL 5406.0 Sq.Yd.
Deductions: 11+50.63 (S) to Sta. 12+60.05(S) = 109.42 Lin.Ft.
109.4' x 5' ÷ 9 = 6.1 Sq.Yd.
Net Total 5399.9 Sq.Yd.
5399.9 x 0.35 Gal. Per Sq.Yd. 1890.0 Gal.
TOTAL TO U.S.25 CALCULATIONS 1890.0 Gal.

ITEM-B-119 CRUSHED AGGREGATE BASE COURSE

From Typical Section Nº 1.
253.43' x 21' x 5/12 ÷ 27 = 82.1 Cu.Yd.
Add for Turn-out. Sta. 0+10 (T) to Sta. 0+61.27 (T)
1941^{sf} x 5/12 ÷ 27 = 30.0 Cu.Yd.
Add for Turn-out. Sta. 7+89.7 (T) to Sta. 8+39.7 (T)
1921.8^{sf} x 5/12 ÷ 27 = 29.7 Cu.Yd.

From Typical Section Nº 2
60' x 18.05' x 5/12 ÷ 27 = 16.7 Cu.Yd.
1772.78' x 21' x 5/12 ÷ 27 = 574.5 Cu.Yd.
60' x 19.3 x 5/12 ÷ 27 = 17.9 Cu.Yd.
TOTAL = 750.9 Cu.Yd.
Deductions: Sta. 11+50.63(S) to Sta. 12+60.05(S) = 109.42 Lin.Ft.
109.4' x 5' x 5/12 ÷ 27 = 0.8 Cu.Yd.
NET TOTAL = 750.1 Cu.Yd.
TOTAL TO U.S 25 CALCULATIONS 750.1 Cu.Yd.

ITEM I-22 SUBBASE

From Typical Section Nº 1.
253.43 x 22 x 4/12 ÷ 27 = 68.8 Cu.Yds.
Add for Turnout Sta. 0+10(T) to Sta. 0+61.27(T)
1982^{sf} x 4/12 ÷ 27 = 24.5 Cu.Yd.
Add for Turnout Sta. 7+89.7(T) to Sta. 8+39.7(T)
1962^{sf} x 4/12 ÷ 27 = 24.2 Cu.Yd.

From Typical Section Nº 2
60' x 19.05' x 4/12 ÷ 27 = 14.1 Cu.Yd.
1772.78' x 22' x 4/12 ÷ 27 = 481.5 Cu.Yd.
60' x 20.3' x 4/12 ÷ 27 = 15.0 Cu.Yd.
TOTAL 628.1 Cu.Yd.
Deductions: Sta. 11+50.63(S) to Sta. 12+60.05(S) = 109.42 Lin.Ft.
109.4' x 1.0' x 4/12 ÷ 27 = 1.4 Cu.Yd.
NET TOTAL = 626.7 Cu.Yds.
TOTAL TO U.S. 25 CALCULATIONS 626.7 Cu.Yd.

ITEM E-1 COMPACTED SUBGRADE

From Typical Section Nº 1
253.43' x 20' ÷ 9 = 563.2 Sq.Yd.
Add for Turnout Sta. 0+10(T) to Sta. 0+61.27(T)
1900^{sf} ÷ 9 = 211.1 Sq.Yd.
Add for Turnout Sta. 0+10(T) to Sta. 0+61.27(T)
1881.5^{sf} ÷ 9 = 209.1 Sq.Yd.
From Typical Section Nº 2
60' x 17.05' ÷ 9 = 113.7 Sq.Yd.
1772.78 x 20' ÷ 9 = 3939.5 Sq.Yd.
60' x 18.3' ÷ 9 = 122.0 Sq.Yd.
TOTAL 5158.6 Sq.Yd.
TOTAL TO U.S. 25 CALCULATIONS 5158.6 Sq.Yd.

ITEM E-9 REMOVAL OF TREES AND STUMPS

Estimated 11 (Eleven) Tree & 47 (Forty-seven) Stumps to be removed and disposed of.
TOTAL TO U.S. 25 CALCULATIONS Lump

ITEM E-11 WATER

From Earthwork Table = 11,124 Cu.Yd.
From B-119 Calculations = 750.1 Cu.Yd.
From I-18 Calculations = 14.8 Cu.Yd.
From I-22 Calculations = 626.7 Cu.Yd.
TOTAL 12,515.6 Cu.Yd.
12,515.6 x 5 Gal. per Cu.Yd. ÷ 1000 62.6 M.Gal.
TOTAL TO U.S. 25 CALCULATIONS 62.6 M.Gals.

ITEM I-9 STONE UNDERDRAIN Nº 2

Estimated 490.0 Lin. Ft. of I-9 Stone Underdrain to be placed approximately every 50' as directed by the Engineer.
TOTAL TO U.S. 25 CALCULATIONS 490.0 Lin.Ft.

ITEM I-18 STABILIZED CRUSHED AGG. for SHOULDERS & APPROACHES

From Cemetery Road - Blank Pike Connection at Sta. 9+53 (S) Field Drive Right Symboled (1-A)

I-18 required = 798.8^{sf} x 6/12 ÷ 27 = 14.8 Cu.Yd.
TOTAL TO U.S. 25 CALCULATIONS 14.8 Cu.Yd.

ITEM L-9 COMMERCIAL FERTILIZER (10-6-4)

From Roadside Improvement Table = 20,204 Sq.Yd.
20,204 x 9/1000 x 20/2000 = 1.82 Tons
TOTAL TO U.S. 25 CALCULATIONS 1.82 Tons

EARTHWORK CARRIED TO PROP. U.S.R. 25 TABLES

DRAINAGE TABLE

Plan & Profile Sheet Nº	Reference Nº	Detail Sheet Nº	STATION From	STATION To	Side	E-2 Excavation for Structure Cu.Yd.	E-12 Pipe Removed 18" and Under Lin.Ft.	E-12 Pipe Removed Over 18" Lin.Ft.	I-2 Storm Sewers under Pav't. Class "A" 8" Lin.Ft.	I-2 Storm Sewers under Pav't. Class "A"	I-3 Pipe Outlet 8" Lin.Ft.	I-3 Pipe Outlet	I-3 Pipe for Rdwy Dringe 8" Lin.Ft.	I-8 Std. Nº 1:2 A Catch Basin Each	S-1 Concrete for Structure "E" Cu.Yd.	S-27 Pipe for Roadway Drainage Sec. M-6.8 (b) or Sec. M-6.6 (b) Lin.Ft. 18"	S-27 21"	S-27 24"	Remarks
265	1-D		5+13(S)	6+10(S)±	℄				170	95									
265	2-D	267	6+00(S)	Structure	℄	34									1.92			90	58
265	3-D	267	10+80(S)	Structure	℄	13									0.60	64	14'		
265	4-D		11+26(S)		℄		30												
265	5-D		10+98(S)		Rt.						10'								
269	1-D		1+60(T)	1+76(T)	℄		120		116	11			4	1					
269	2-D	270	2+00(T)	Structure	℄	11									0.72		102	55	
Total to U.S. 25 Table						58	150		286		10		4	1	3.24	64	102	90	

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

265
466

AUGLAIZE COUNTY
AUG - 25-5.05

P.I. Sta. 5+18.35 Blank Pike =
Sta. 0+00 Cemetery Rd. =
Sta. 7+00 (S)

See Interchange Quantities

℄ Cemetery Rd.

℄ Blank Pike

90° 04' 30"

6" F.T.

5" F.T.

3" F.T.

4" F.T.

1-D

2-D

3-D

4-D

5-D

1-A

Prop. 8" F-2 Pipe Under Pvt.

Prop. 24" S-27
See Detail Sheet No 267

Prop. 18" S-27

See Detail Sheet No 267

E-12 Pipe Removed
Ex. 12" C.M.P.

Remove

Abandon

See S.R. 67 - Blank Pike Connection.

Sta. 01+00 (S) T.S.

Sta. 7+00 Cemetery Rd.

Sta. 7+60 Begin Flare

Sta. 8+00 BEGIN Work

P.C.C. Sta. 5+00.96 (S)

Sta. 5+13 (S) - 59' Rt.
El. 899.57

P.C. Sta. 0+50 (S)

P.T. Sta. 5+50 (S)

300' V.C.

0.76 %

P.I. Sta. 2+00 (S)
Elev. 904.16

0.247 %

P.C. Sta. 9+50 (S)

P.T. Sta. 12+50 (S)

300' V.C.

0.32 %

P.T. Sta. 11+00 (S)
Elev. 901.84

S.T. Sta. 12+97.78 (S) =
Sta. 14+16.78 Blank Pike

Sta. 15+00
END Project

Sta. 14+76.79 End Flare

C.S. Sta. 10+97.78 (S)

Sta. 10+96 - 30' Rt. Begin 10" of 6"
1-3 Pipe Outlet: ℄ 898.50

CURVE DATA

Δ = 48° 06' 56"
D = 12° 00'
Ls = 200'
Θs = 12° 00'
p = 3.49
k = 99.85
Xc = 199.12
yc = 13.92
Δc = 36° 06' 56"
Rc = 477.46
Lc = 300.96

CURVE DATA

Δ = 41° 46' 34"
D = 6° 00'
Ls = 200'
Θs = 6° 00'
p = 1.74
k = 99.96
Xc = 199.78
yc = 6.96
Δc = 35° 46' 34"
Rc = 954.93
Lc = 596.62

902.64 | 903.02 | 903.20 | 903.36 | 903.50 | 903.61 | 903.71 | 903.78 | 903.84 | 903.87 | 903.88 | 903.87 | 903.84 | 903.79 | 903.67 | 903.54 | 903.42 | 903.30 | 903.17 | 903.05 | 902.92 | 902.80 | 902.68 | 902.55 | 902.43 | 902.31 | 902.26 | 902.20 | 902.17 | 902.15 | 902.15 | 902.15 | 902.17 | 902.19 | 902.23 | 902.28 | 902.35 | 902.42 | 902.57 | 902.84

902.64 | 902.40 | 901.5 | 902.0 | 900.0 | 900.0 | 899.8 | 900.0 | 899.3 | 899.0 | 898.5 | 897.6 | 898.0 | 901.0 | 902.0 | 902.3 | 902.3 | 902.1 | 902.0 | 902.0 | 901.1 | 901.5 | 901.0 | 900.3 | 900.5 | 901.0 | 901.07 | 902.07 | 902.84

175 | 166 | 125 | 115 | 140 | 105 | 135 | 130 | 165 | 145 | 165 | 100 | 140 | 100 | 130

0+00 (S) | 1+00 (S) | 2+00 (S) | 3+00 (S) | 4+00 (S) | 5+00 (S) | 6+00 (S) | 7+00 (S) | 8+00 (S) | 9+00 (S) | 10+00 (S) | 11+00 (S) | 12+00 (S) | 12+97.78 (S) | 15+00

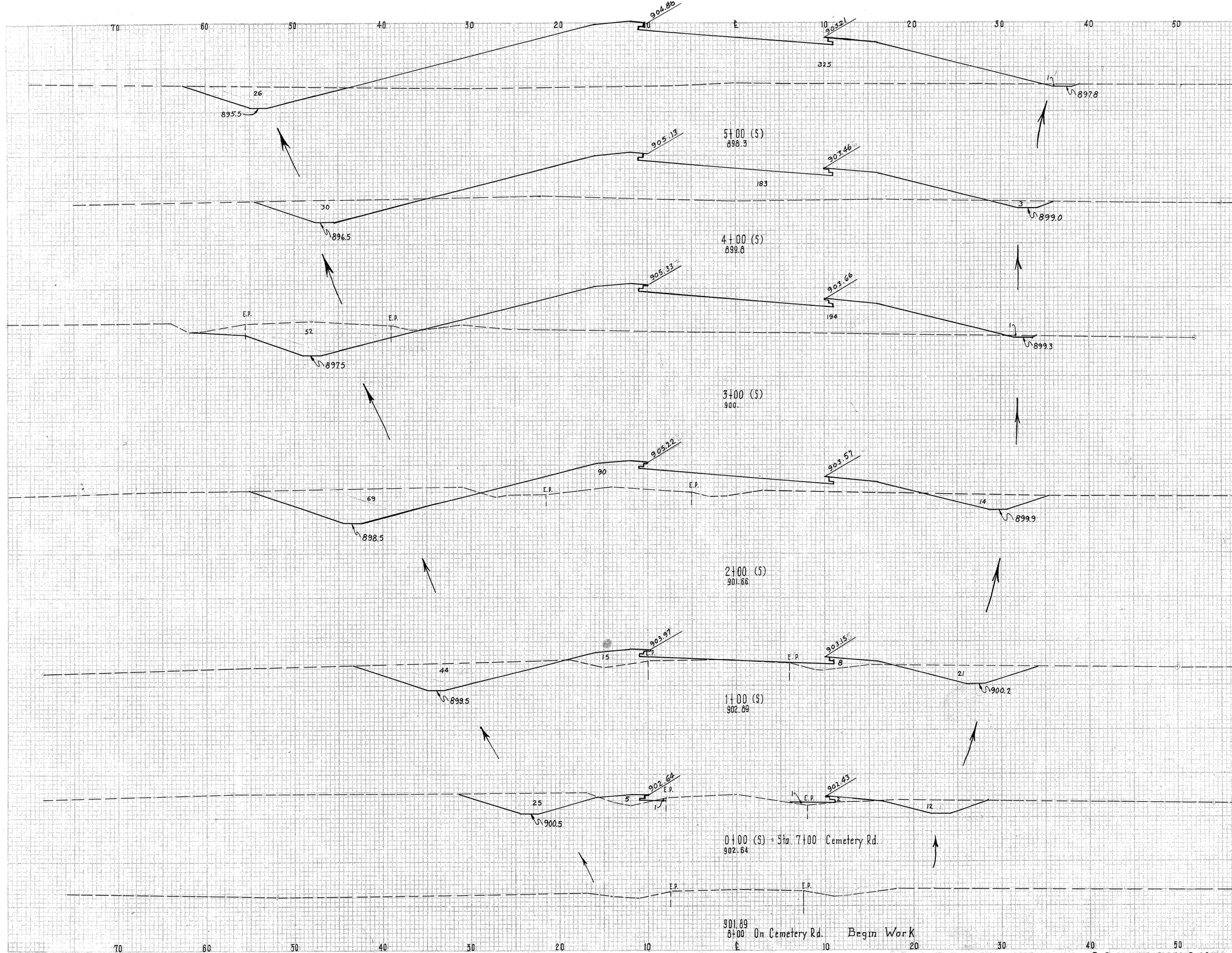
905 | 900 | 895

CEMETERY RD ~ BLANK PIKE CONNECTION

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

266
466

AUGLAIZE COUNTY
AUG-25-5.05

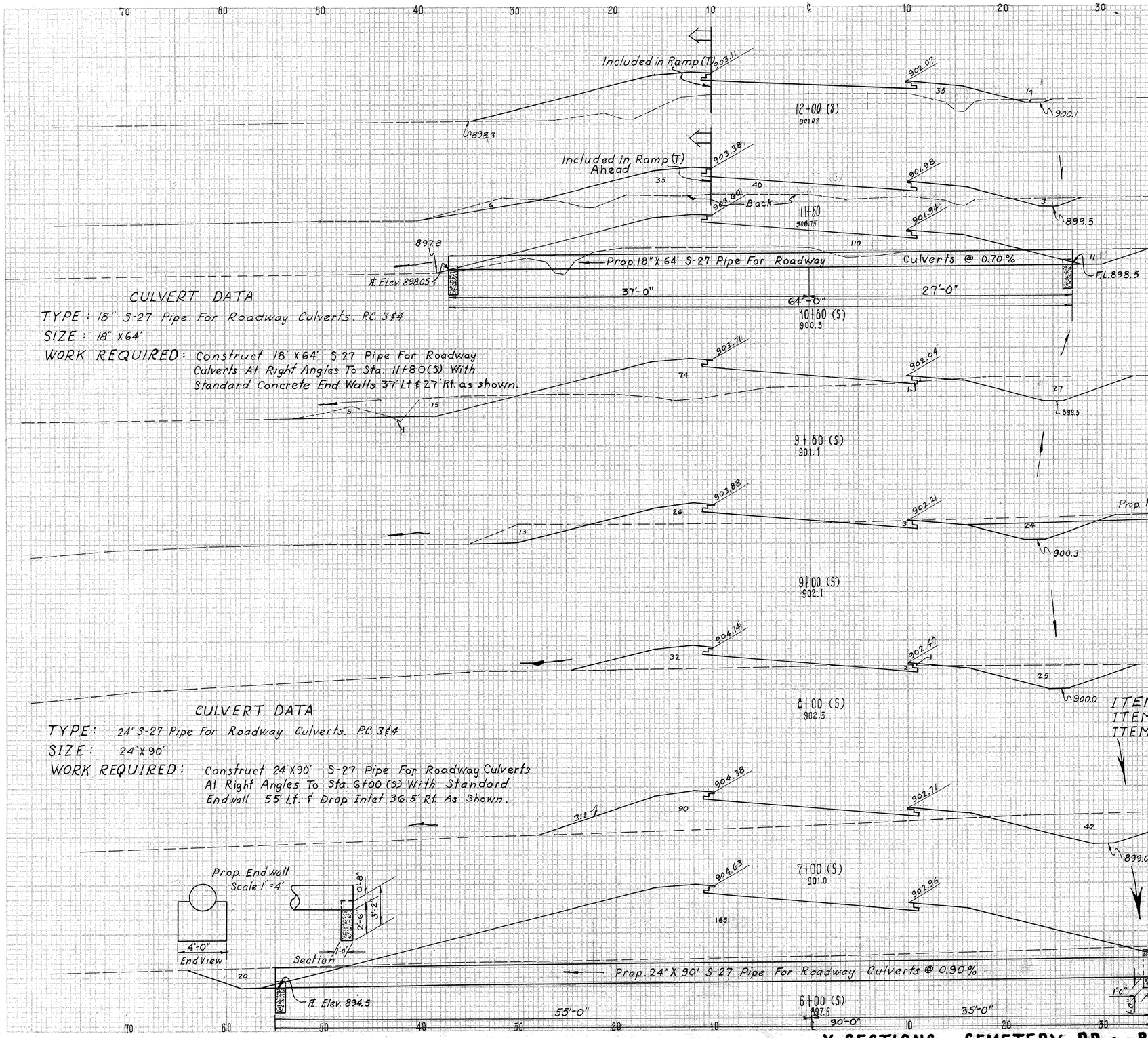


End Area		Volume	
Cut	Fill	Cut	Fill
27	325		
		111	941
33	183		
		159	698
53	194		
		252	526
83	90		
		274	209
65	23		
		191	57
38	8		
		70	15
0	0		

X-SECTIONS CEMETERY RD ~ BLANK PIKE CONNECTION

FED. RD. DIVISION	STATE	PROJECT		267
2	OHIO			466

AUGLAIZE COUNTY
AUG-25-5.05



CULVERT DATA

TYPE: 18" S-27 Pipe For Roadway Culverts. PC. 3.14

SIZE: 18" x 64'

WORK REQUIRED: Construct 18" x 64' S-27 Pipe For Roadway Culverts At Right Angles To Sta. 11+80 (S) With Standard Concrete End Walls 37' Lt & 27' Rt. as shown.

ESTIMATED QUANTITIES

ITEM	E-2	Excavation For Structures	13 Cu.Yds
ITEM	S-1	Concrete For Structures Class "E"	0.6 Cu.Yds
ITEM	S-27	Pipe For Roadway Culverts 18" Sec M6.8(b) or Sec M6.6(b)	64 Lin.Ft.

CULVERT DATA

TYPE: 24" S-27 Pipe For Roadway Culverts. PC. 3.14

SIZE: 24" X 90'

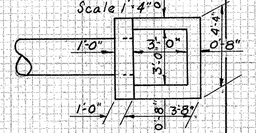
WORK REQUIRED: Construct 24" X 90' S-27 Pipe For Roadway Culverts At Right Angles To Sta. 6+00 (S) With Standard Endwall 55 Lt. & Drop Inlet 36.5' Rt. As Shown.

ESTIMATED QUANTITIES

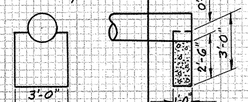
ITEM	E-2	Excavation For Structures	34 Cu.Yds
ITEM	S-1	Concrete For Structures Class "E"	1.92 Cu.Yds
ITEM	S-27	Pipe For Roadway Culverts 24" Sec M6.8(b) or Sec M6.6(b)	90 Lin.Ft.

Prop. Endwall
Scale 1"=4'

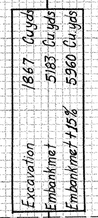
Plan of Prop. Drop Inlet
Scale 1"=4'-0"



Prop. End Walls



Prop. Fld. Drive Rt. Sta 9+50



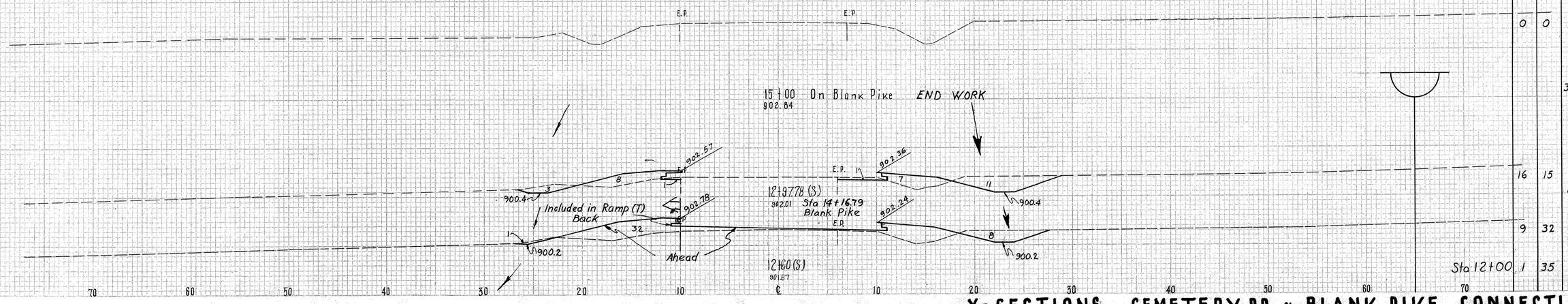
	End Area		Volume	
	Cut	Fill	Cut	Fill
	1	35		
			4	70
Ahead	3	40		
Back	9	75		
			26	240
	11	110		
			109	341
	48	74		
Add for Dr. Pt. Sta 9+50			10	9
			130	148
	40	26		
			124	109
	27	33		
			128	228
	42	90		
			128	509
	27	185		
			87	944
Sta 5+00	20	325		

X-SECTIONS CEMETERY RD. ~ BLANK PIKE CONNECTION

FED. RD. DIVISION	STATE	PROJECT		268 466
2	OHIO			

AUGLAIZE COUNTY
AUG - 25 - 5.05

End Area		Volume	
Cut	Fill	Cut	Fill
		0	0
		36	33
		16	15
		17	32
		9	32
		11	74
		Sta 12+00	1 35

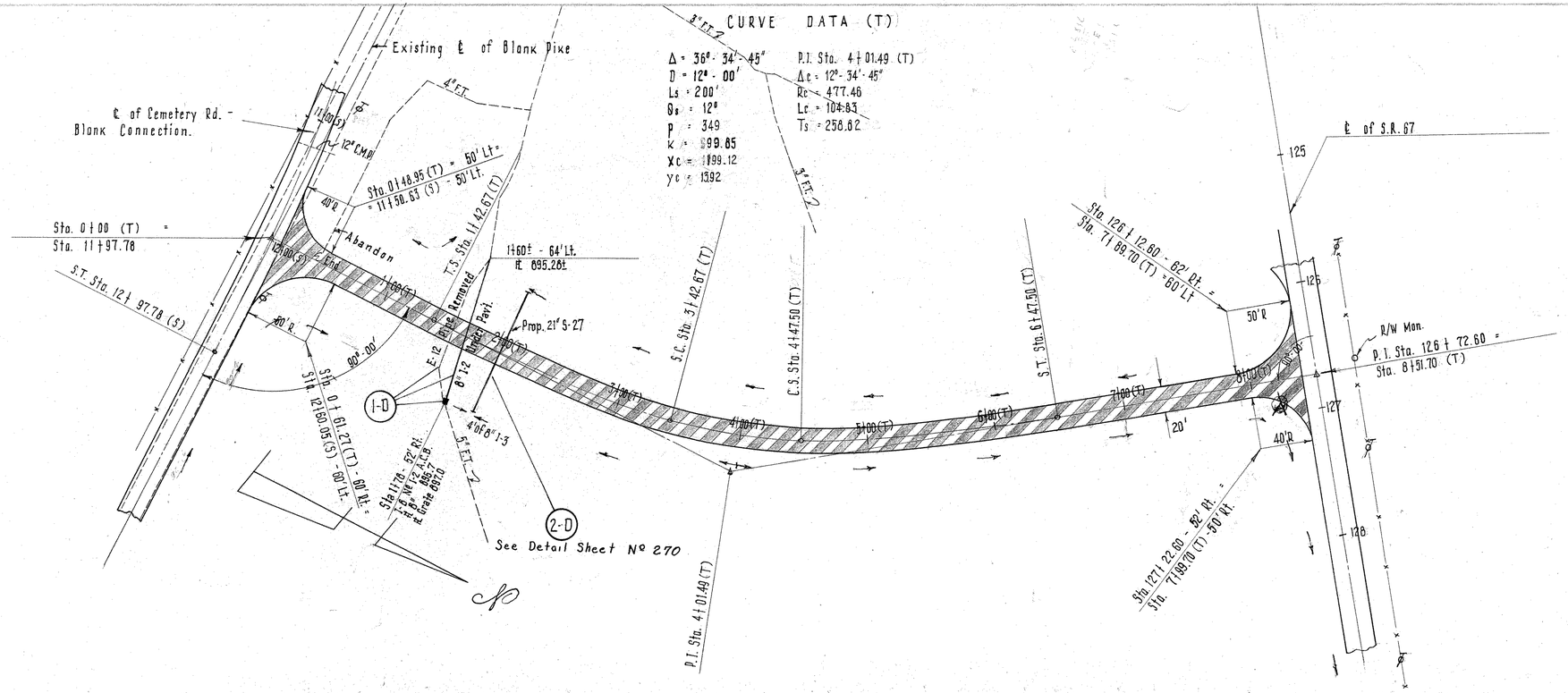


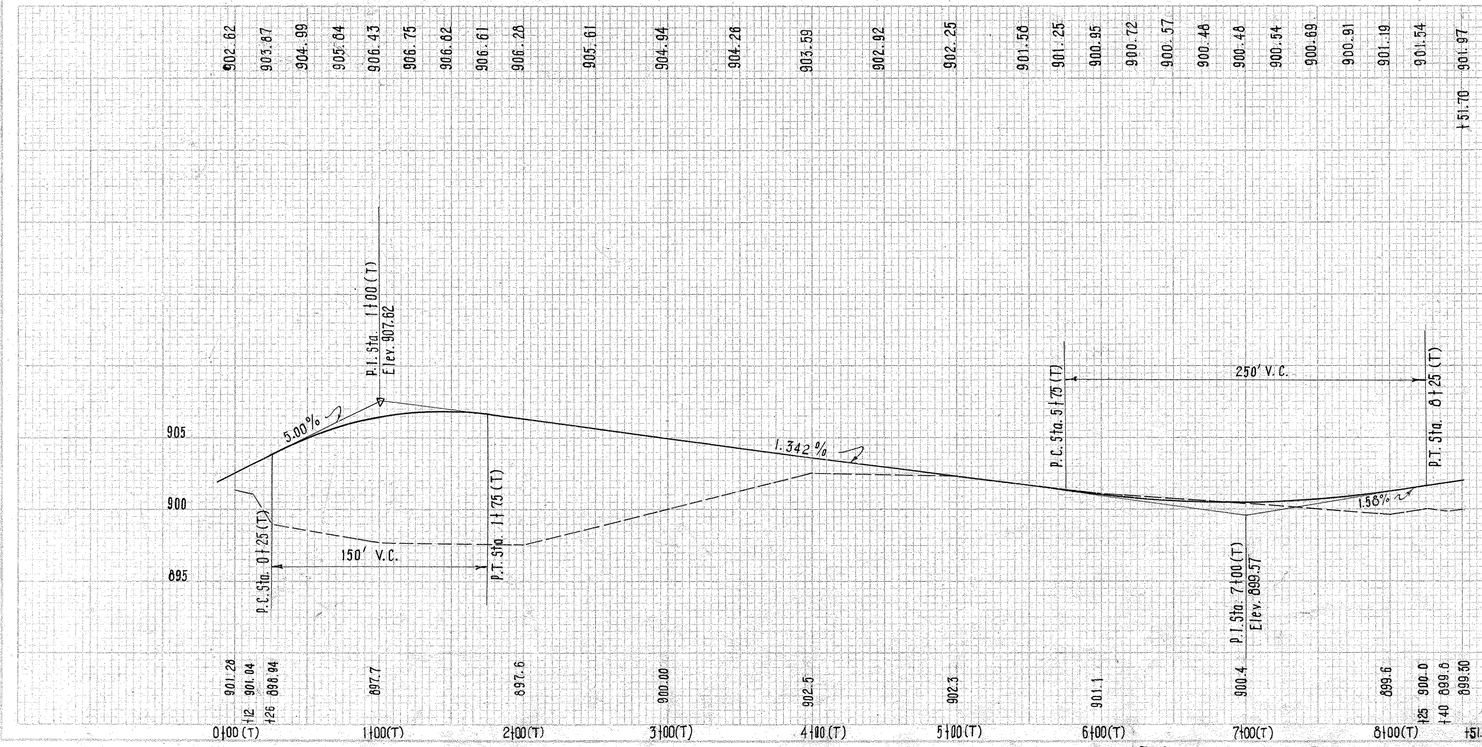
X-SECTIONS CEMETERY RD. ~ BLANK PIKE CONNECTION

PID. NO. DIVISION	STATE	PROJECT		
2	OHIO			

269
466

AUGLAIZE COUNTY
AUG-25-5.05





SUPERELEVATION TABLE
BLANK PIKE - S.R.67 CONNECTION

Elevation Lt. Edge	Deduct From Profile	Station	Profile	Actual ℄ Elevation	Superelev.	Elevation Rt. Edge
905.19	0.21	0 + 61.27	905.40	905.40	0.00	905.19
905.63		+ 75	905.64	905.64	0.00	905.63
906.22		1 + 00	906.43	906.43	0.00	906.22
906.54		+ 25	906.75	906.75	0.07	906.61
906.61		+ 50	906.82	906.82	0.18	906.79
906.40		+ 75	906.61	906.61	0.26	906.66
906.07		2 + 00	906.26	906.29	0.44	906.51
905.73		+ 25	905.94	906.05	0.63	906.36
905.40		+ 50	905.61	905.80	0.80	906.20
905.06		+ 75	905.27	905.56	0.99	906.05
904.73		3 + 00	904.94	905.32	1.17	905.90
904.39		+ 25	904.60	905.05	1.31	905.70
904.05		+ 50	904.26	904.72	1.33	905.36
903.72		+ 75	903.93	904.39	1.33	905.05
903.38		4 + 00	903.59	904.05	1.33	904.71
903.05		+ 25	903.26	903.72	1.33	904.38
902.71		+ 50	902.92	903.38	1.33	904.04
902.38		+ 75	902.59	903.94	1.29	903.67
902.04		5 + 00	902.25	902.65	1.18	903.22
901.71		+ 25	901.92	902.24	1.05	902.76
901.37		+ 50	901.58	901.64	.94	902.31
901.04		+ 75	901.25	901.44	.81	901.95
900.74		6 + 00	900.95	901.07	.65	901.39
900.51		+ 25	900.72	900.73	.43	900.94
900.36		+ 50	900.57	900.57	.13	900.49
900.27		+ 75	900.46	900.46	.02	900.29
900.27	0.21	7 + 00	900.46	900.46	0.00	900.27

BLANK PIKE - S.R.67 CONNECTION

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

270
466

AUGLAIZE COUNTY
AUG-25-5.05

70 60 50 40 30 20 10 ℄ 10 20 30 40 50

Included in Ramp "A"

½"/i-/

903.38 — 163 — 897.4

904.71 — 49

903.59
4+00 (T)
902.5

SEE RAMP "B"

½"/i-/

904.73 — 60 — 897.1

905.90 — 274

904.94
3+00 (T)
900.0

906.07 — 52'-0" — 102'-0" — 50'-0" — 906.51 — 565

Prop. 21" x 102'-S-27 Pipe For Roadway Culverts @ 0.80%

F.L. Elev. 896.50

F.L. Elev. 897.32

906.22 — 906.28 2+00 (T) 897.6 — 906.22 — 530

906.43
1+00 (T)
897.7

Included in Cemetery Rd. Blank Pike Connection

350

Included in Cemetery Rd. Blank Pike Connection

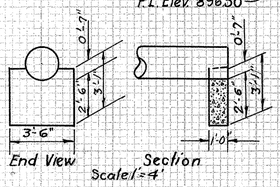
903.87
0+25 (T)
898.94

Included in Cemetery Rd. Blank Pike Connection

138

903.22 Ahead Only
0+12 (T)
901.04

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70



CULVERT DATA

TYPE: 21" S-27 Pipe For Roadway Culvert P.C. 3 & 4.
SIZE: 21" X 102'.
WORK REQUIRED: Construct Standard S-27 21" X 52' Lt. & 50' Rt. At Right Angles To Sta 2+00(T) With Std. Concrete Endwalls 52' Lt. & 50' Rt. As Shown.

ESTIMATED QUANTITIES

ITEM E-2	Excavation For Structures	11 Cu. Yds.
ITEM S-1	Concrete For Structures Class "E"	0.72 Cu. Yds.
ITEM S-27	Pipe For Roadway Culvets 21" Sec M6.8(b) or Sec M6.6(b)	102 Lin. Ft.

	Excavation	Embankment	Embankment +15%
	1984 Cu. yds	5941 Cu. yds	6832 Cu. yds

End Area		Volumes	
Cut	Fill	Cut	Fill
163	49		
		413	598
60	274		
		128	1554
9	565		
		17	2028
0	530		
		0	1223
0	350		
		0	118
0	138		

X-SECTIONS BLANK PIKE-S.R. 67 CONNECTION

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

271
466

AUGLAIZE COUNTY
AUG 25-5.05

70 60 50 40 30 20 10 ℄ 10 20 30 40 50

Included in Ramp "B" Quantities

114

10

Included in S.R. 67 Quantities

90177
8+39.7(T) Back Only
899.6

Included in Ramp "B" Quantities

80

15

Included in S.R. 67 Quantities

90154
8+25 (T)
900.0

Included in Ramp "B" Quantities

½ 11' 35 ½ 11' 2

899.0

36 15

898.1

90119
8+00 (T)
899.6

Included in Ramp "B" Quantities

½ 11' 10 ½ 11' 19

900.27

900.27 18 22

898.3

898.4

90048
7+00 (T)
900.4

Included in Ramp "B" Quantities

½ 11' ½ 11' 81

900.74

901.39 2 8

898.0

899.7

90095
6+00 (T)
901.1

Included in Ramp "B" Quantities

½ 11' ½ 11' 133

902.04

903.22 8 2

897.7

901.5

90225
5+00 (T)
902.3

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

	End Area		Volume	
	Cut	Fill	Cut	Fill
	10	114		
			7	53
	15	80		
			15	70
	17	71		
			141	150
	59	10		
			274	22
	89	2		
			426	19
	141	8		
			563	106
Sta. 4+00	163	49		

X-SECTIONS BLANK PIKE - S.R. 67 CONNECTION

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

272
466

AUGLAIZE COUNTY
AUG-25-5.05

DRAINAGE TABLE

Plan & Profile Sheet No	Reference No	Detail Sheet No	STATION From	STATION To	SIDE	E-2 Excavation for Structures Cu.Yd.	E-12 Pipe Removed 15" & Under Lin.Ft.	E-12 Pipe Removed 15" & Under Lin.Ft.	E-12 Pipe Removed for Storage Over 15' Lin.Ft.	E-12 Pipe Removed for Storage Over 15' Lin.Ft.	I-1 Pipe for Driveways Lin.Ft. 12"	I-2 Class "A" Storm Sewers under Pavement & Approaches Lin.Ft. 8"	I-3 Pipe for Roadway Drainage Lin.Ft.	I-3 Pipe for Roadway Drainage Lin.Ft.	I-3 Pipe Outlet Lin.Ft. 8"	I-5 Pipe Specials For I-3 Pipe 8"x45° Each	I-5 Pipe Specials Each	I-10 Dumped Rock Fill Cu.Yd.	L-10 Sodding Sq.Yd.	S-1 Concrete for Structures Class "E" Cu.Yd.	S-27 Pipe for Roadway Culverts Sec. M-6.6(b) or Sec. M-6.6(b) Lin.Ft. 30"	Remarks
274	1-D		8+84	9+16	Lt.						32											
274	2-D	355	9+60	Structure	℄	33	33					90						6		1.0	76	
274	3-D		10+04	11+00	Rt.						42								54			
274	4-D		16+70	19+00	Lt.														415			
274	5-D		17+00	19+82	Rt.														282			
274	6-D		18+79	18+93	Lt.										18	1			230			
274	7-D	356	19+86	Structure	℄	84			33									7		3.4	90	
274	8-D		19+89	23+00	Rt.														314			
274	9-D		21+00	23+00	Lt.														200			
275	1-D		23+00	23+85	Rt.										34				56			
Total To Hengstler Road Calculations																			1551			
Total To U.S.25 Drainage Tables						117	33		33		74	90			52	1		13	1551	4.4	166	

DRIVE AND APPROACH TABLE

Plan & Profile Sheet No	Reference No	STATION From	STATION To	B-35 Asphaltic Concrete Leveling Course	B-119 Crushed Aggregate Base Course	I-18 Stabilized Crushed Aggregate Shoulders & Approach	I-22 Subbase		T-30 Bituminous Prime Coat @0.35 gal/Sq.Yd.	T-35 Asphaltic Concrete Surface Course		Remarks
		From	To		Cu.Yd.	Cu.Yd.	Cu.Yd.		Gal.	Cu.Yd.		
274	1-A	7+75	9+35	10.6	38.0		26.0		90.0	9.2		
274	2-A	9+00				15.2						Drive Lt.
274	3-A	10+25				21.7						Drive Lt.
274	4-A	16+80				63.0			41.7	6.2		Drive Rt.
274	5-A	17+00				4.7			12.0	1.7		& Approach
275	1-A	22+50	24+00	12.5	40.5		30.5		100.2	10.1		
275	2-A	23+75				11.7						Drive Lt.
Total to Hengstler Road Calculations				23.1	78.5	116.3	56.5		243.9	27.2		
Total to U.S.25 Calculations						116.3						

EARTHWORK TABLES

Plan & Profile Sheet No	STATION From	STATION To	Excavation Cu.Yd.	Embankment Cu.Yd.	Embankment + 15% Cu.Yd.	ROADSIDE IMPROVEMENT L-9 Seeding & Protection Sq.Yds
278	7+00	24+25	921	23,471	26,992	14,850
Total to Hengstler Rd. Calculations			921	23,471	26,992	14,850
Total To U.S.25 Tables			921			14,850

EARTHWORK CALCULATIONS

Total Embankment + 15% = 26,992 Cu.Yd.
Total Excavation Available 921 Cu.Yd.
26,071 Cu.Yd.
Net Embankment required for Hengstler Road Forward to U.S. 25 Tables 26,071 Cu.Yd.

GUARD RAIL TABLE

Plan & Profile Sheet No	Reference No	STATION From	STATION To	Side	I-15 Guard Rail Steel Beam Type "Deep" Curved 16'R Lin.Ft.	I-15 Guard Rail Steel Beam Type "Deep" Curved 21'R Lin.Ft.	I-15 Guard Rails Straight Lin.Ft.	Remarks
274	1-G	10+46.66	13+71.5	Lt.			325.0	
274	2-G	11+43.66	13+56	Rt.			212.5	
274	3-G	16+31	Curved	Rt.		50		
274	4-G	16+45	21+19.84	Lt.			475.0	
274	5-G	16+66±	21+56	Rt.	25		450.0	
Total To U.S.25 Tables					25	50	1462.5	

APPROACH SLAB TABLE

Plan & Profile Sheet No	STATION From	STATION To	I-7 Reinforced Concrete Approach Slab T= 11½" Sq.Yds.	E-1 Compacted Subgrade Sq.Yds.	I-22 Subbase Cu.Yd.	Remarks
274	13+51.46	13+71.46	44.4	44.4	8.1	
274	16+28.54	16+48.54	44.4	44.4	8.1	
Total to Hengstler Rd. Calculations				88.8	16.2	
Total To U.S.25 Tables			88.8			

HENGSTLER ROAD CALCULATIONS

ITEM T-35 ASPHALTIC CONC. SURFACE COURSE (TYPE "A" 70-00)

From Typical Section No 1 1017.92 Lin. Ft.
1017.92 x 20 x 1.25/12 ÷ 27 = 78.5 Cu.Yd.

From Drive & Approach Table 27.2 Cu.Yd.
Total 105.7 Cu.Yd.

Total to U.S. 25 Calculations 105.7 Cu.Yd.

ITEM B-35 ASPHALTIC CONC. LEVELING COURSE (70-80)

From Typical Section No 1 = 1017.92 Lin. Ft.
1017.92 x 20 x 1.5/12 ÷ 27 = 94.3 Cu.Yd.

From Drive & Approach Table 23.1 Cu. Yd.
Total 117.4 Cu. Yd.

Total to U.S. 25 Calculations 117.4 Cu.Yd.

ITEM B-119 CRUSHED AGGREGATE BASE COURSE

From Typical Section No 1 1017.92 Lin. Ft.
1017.92 x 21 x 5/12 ÷ 27 = 329.9 Cu.Yd.

From Drive & Approach Table 78.5 Cu.Yd.
Total 408.4 Cu. Yd.

Total to U.S. 25 Calculations 408.4 Cu.Yd.

ITEM I-22 SUBBASE

From Typical Section No 1 - 1017.92 Lin. Ft.
1017.92 x 22 x 4/12 ÷ 27 = 276.5 Cu.Yd.

From Drive & Approach Table 56.5 Cu. Yd.
From Approach Slab Table 16.2 Cu. Yd.
Total 349.2 Cu. Yd.

Total to U.S. 25 Calculations 349.2 Cu.Yd.

ITEM E-1 COMPACTED SUBGRADE

From Typical Section No 1 = 1017.92 Lin. Ft.
1017.92 x 20 ÷ 9 = 2262.0 Sq.Yd.

From Approach Slab Table 88.8 Sq. Yd.
Total 2350.8 Sq. Yd.

Total to U.S. 25 Calculations 2350.8 Sq. Yds.

ITEM T-30 BITUMINOUS PRIME COAT (Sec. M-5.1 R.T. 2 or 3 or Sec. M-5.3 M.C. 0 or 1)

From Typical Section No 1 = 1017.92 Lin. Ft.
1017.92 x 21 ÷ 9 = 2375.1 Sq. Yds.
2375.1 x 0.35 Gal/Sq. Yd. = 831.3 Gal.

From Drive & Approach Table 243.9 Gal.
Total 1075.2 Gal.

Total to U.S. 25 Tables 1075.2 Gal.

ITEM E-11 WATER

From Roadway Earthwork Tables = 23,471.0 Cu. Yd.
From Drive & Approach Table Item I-18 = 116.3 Cu. Yd.
From B-119 Calculations 408.4 Cu. Yd.
From I-22 Calculations = 349.2 Cu. Yd.

Total = 24,344.9 Cu. Yd.

24,344.9 x 5 ÷ 1000 = 121.7 M. Gal.

Total to U.S. 25 Calculations 121.7 Gal.

ITEM E-9 REMOVAL OF TREES AND STUMPS

Estimated 1 (one) Trees and No Stumps to be removed and disposed of

Total to U.S. 25 Calculations

ITEM I-9 STONE UNDERDRAIN No 2

Estimated 614 Lin. Ft. of Stone underdrain to be placed every 50 feet, as directed by the Engineer on each side

Total to U.S. 25 Calculations 614 Lin. Ft.

ITEM L-9 COMMERCIAL FERTILIZER (10-6-4)

From Roadside Improvement Table = 14,850 Sq. Yds.
From Drainage Table Item L-10 Sodding = 1551 Sq. Yds.

Total 16,401 Sq. Yds.

16,401 x 9/1000 x 20/2000 = 1.48 Tons.

Total to U.S. 25 Calculations 1.48 Tons

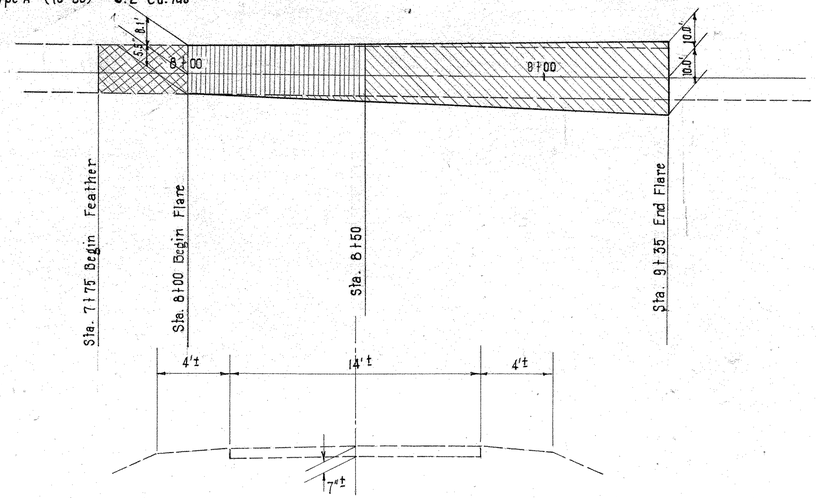
FED. RD. DIVISION	STATE	PROJECT		273
2	OHIO			466

AUGLAIZE COUNTY
AUG-25-5.05

ESTIMATED QUANTITIES

ITEM	B-35	Asphaltic Concrete Leveling Course (70-80)	10.6 Cu.Yds.
ITEM	B-119	Crushed Aggregate Base Course.	38.0 Cu.Yds.
ITEM	I-22	Subbase	26.0 Cu.Yds.
ITEM	T-30	Bituminous Prime Coat @ 0.35 Gal. Per Sq. Yd.	90.0 Gal.
ITEM	T-35	Asphaltic Concrete Surface Course Type 'A' (70-80)	9.2 Cu.Yds

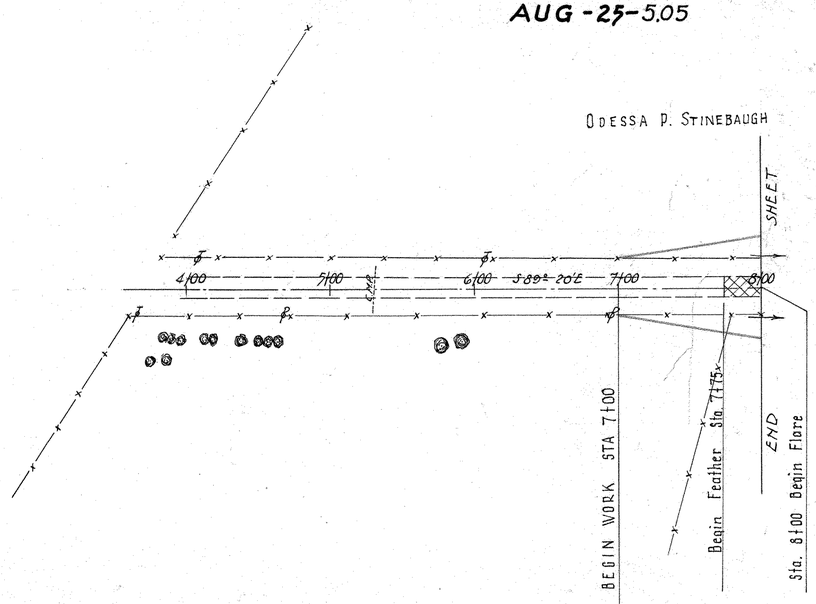
APPROACH STA. 7+75 TO STA. 9+35



Existing Bituminous Surface Course on Traffic Bound Base

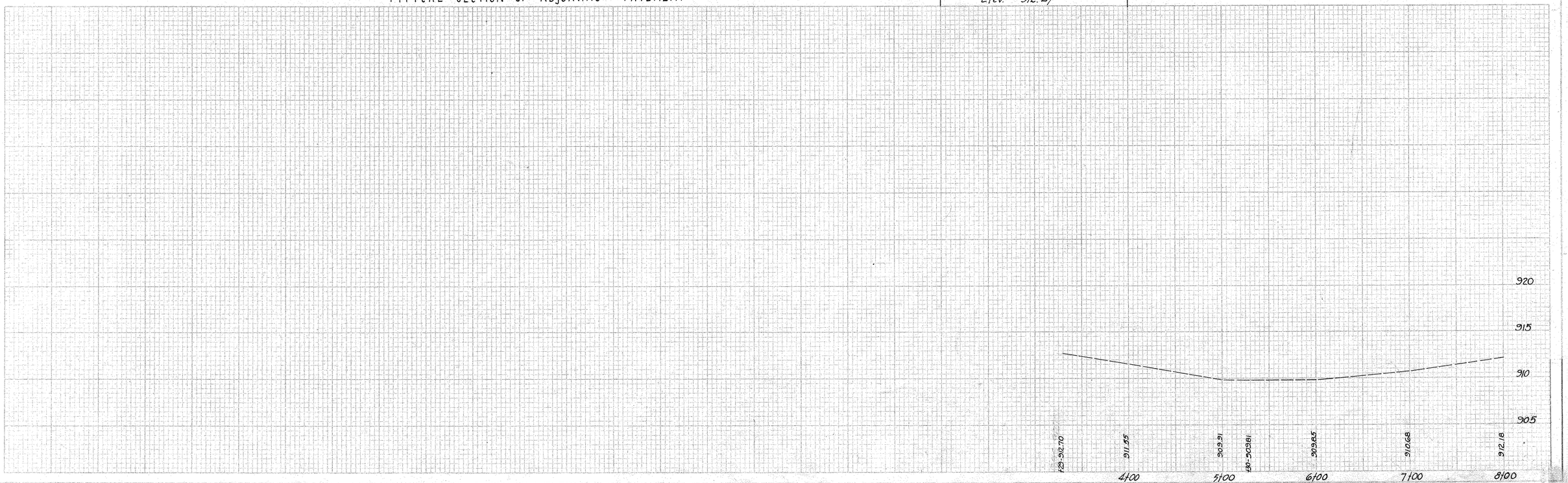
TYPICAL SECTION OF ADJOINING PAVEMENT





ALICE L. STOLZENBACH & THE ESTATE OF CHARLES H. STOLZENBACH

BENCH MARK
B.M. R.R. Spike in ∅ 16' Rt. Sta 3+65
Elev. 912.25



PLAN & PROFILE STA. 4+00 TO STA. 8+00 (HENGSTLER RD.)

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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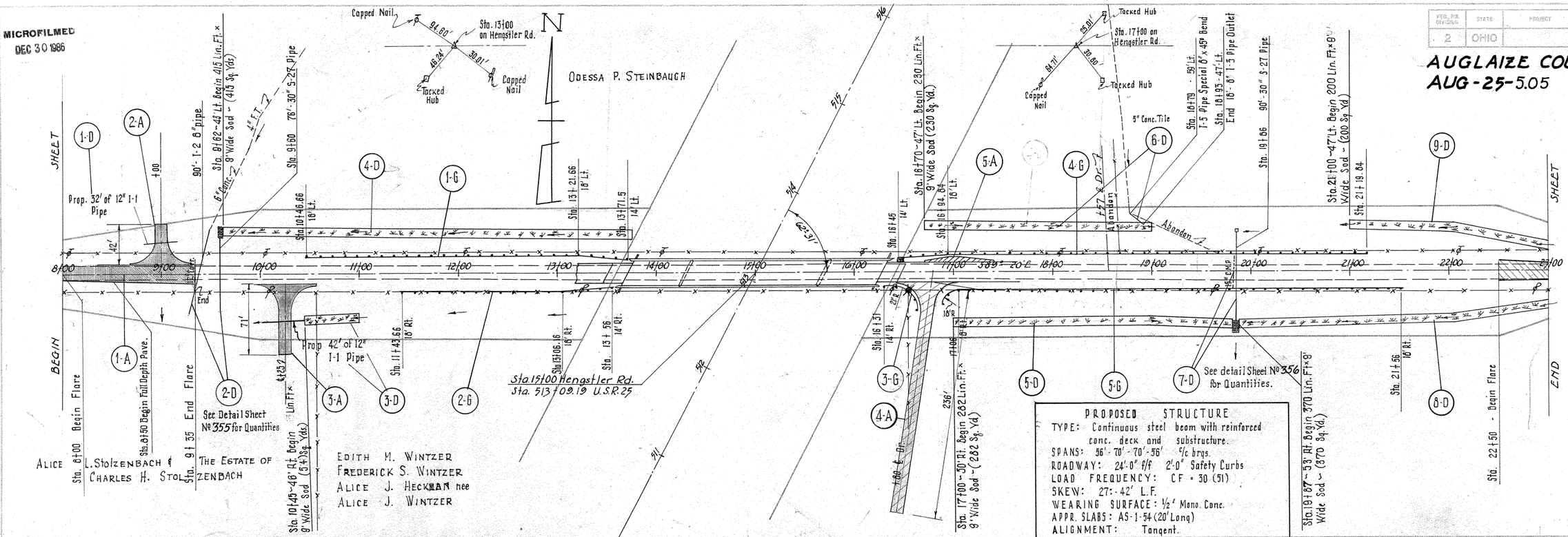
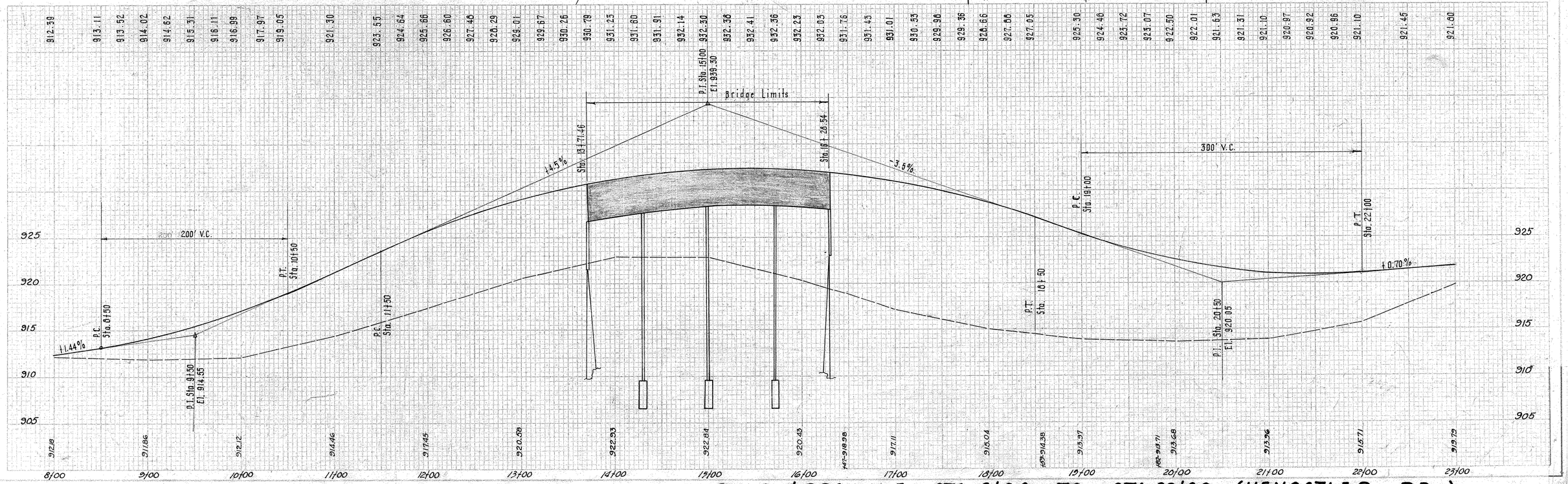
466

AUGLAIZE COUNTY
AUG-25-5.05



PROPOSED STRUCTURE

TYPE: Continuous steel beam with reinforced conc. deck and substructure.
SPANS: 56'-70'-70'-56' c/c brgs.
ROADWAY: 24'-0" f/f 2'-0" Safety Curbs
LOAD FREQUENCY: CF - 30 (51)
SKEW: 27°-42' L.F.
WEARING SURFACE: ½" Mono. Conc.
APPR. SLABS: AS-1-54 (20' Long)
ALIGNMENT: Tangent.



PLAN & PROFILE STA. 8+00 TO STA. 23+00 (HENGSTLER RD.)

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY
AUG-25-5.05

N

APPROACH STA. 22+50 TO STA. 24+25

22+00 | 23+00 | 24+00 | 9.3 | 5.0 | 10.0'

Sta. 22+50 Begin Flare

Sta. 23+60 End Full Depth Pavement

Sta. 24+00 End Flare Begin Feather

Sta. 24+25 End Feather

ESTIMATED QUANTITIES

ITEM	B-35	Asphaltic Concrete Leveling Course (70-80)	12.5	Cu. Yds.
ITEM	B-119	Crushed Aggregate Base Course	40.5	Cu. Yds.
ITEM	I-22	Subbase	30.5	Cu. Yds.
ITEM	T-30	Bituminous Prime Coat @ 0.35 Gals. Per Sq. Yd.	100.2	Gals.
ITEM	T-36	Asphaltic Concrete Surface Course Type "A" (70-80)	10.1	Cu. Yds.

SHEET

ODESSA P. STEINBAUGH

Prop. 32' of 8" I-1 Pipe

1-A | 2-A

Sta. 24+00 End Flare

Sta. 24+25 End Feather

END WORK

23+00 | 30:1 | 24+50

25+00 | 26+00 | 27+00 | S 89° 20' E | 28+00 | 29+00 | 30+00

ISF

1½ Str. Fr.

1-58 E. Dr.

1-59 E. Dr.

BEGIN

Sta. 23+60 End Full Depth Pavement.

Sta. 23+55 - 25' Rt. Begin 8" I-3 Pipe Outlet

Sta. 23+65 - 16.8' Rt. End 8" I-3 Pipe Outlet

1-D

EDITH M. WINTZER
FREDERICK S. WINTZER
ALICE J. HECKMAN nee
ALICE J. WINTZER

BENCH MARK
B.M. R.R. Spike in ℄ 19' Rt. of Sta. 28+69
Elev. 919.06

7'± | 14'± | 7'±

℄ of Pavement

7"±

Existing Bituminous Surface Course on Traffic Bound Base

TYPICAL SECTION OF ADJOINING PAVEMENT

921.80 | 922.15 | 922.50

925

920

915

910

905

+0.70%

919.79 | 921.68 | 922.29 | 922.53 | 922.89 | 923.32 | 923.42 | 922.36

23+00 | 24+00 | 25+00 | 26+00 | 27+00 | 28+00 | 29+00 | 30+00

PLAN & PROFILE STA. 23+00 TO STA. 30+00 (HENGSTLER RD.)

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

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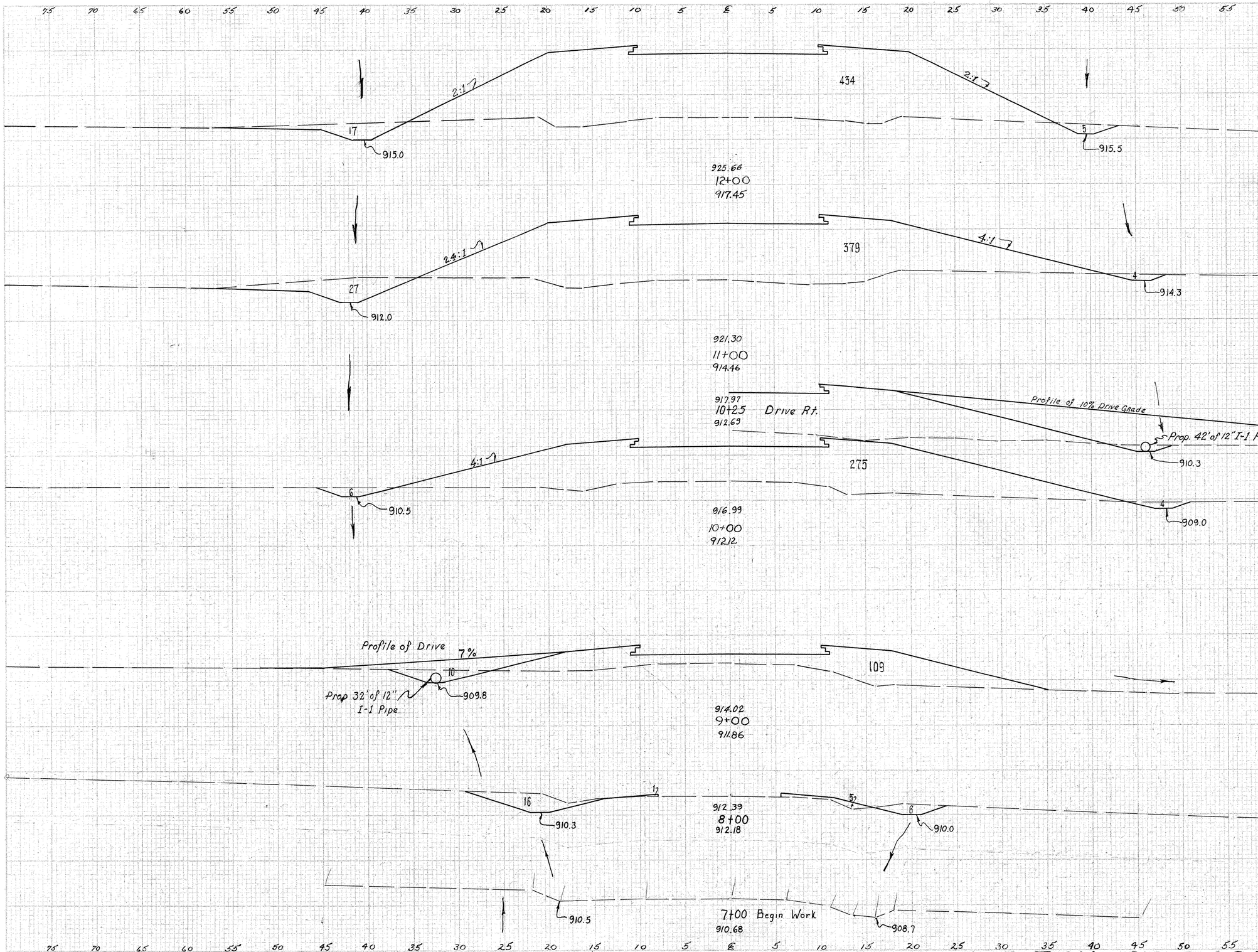
466

AUGLAIZE COUNTY
AUG-25-5.05



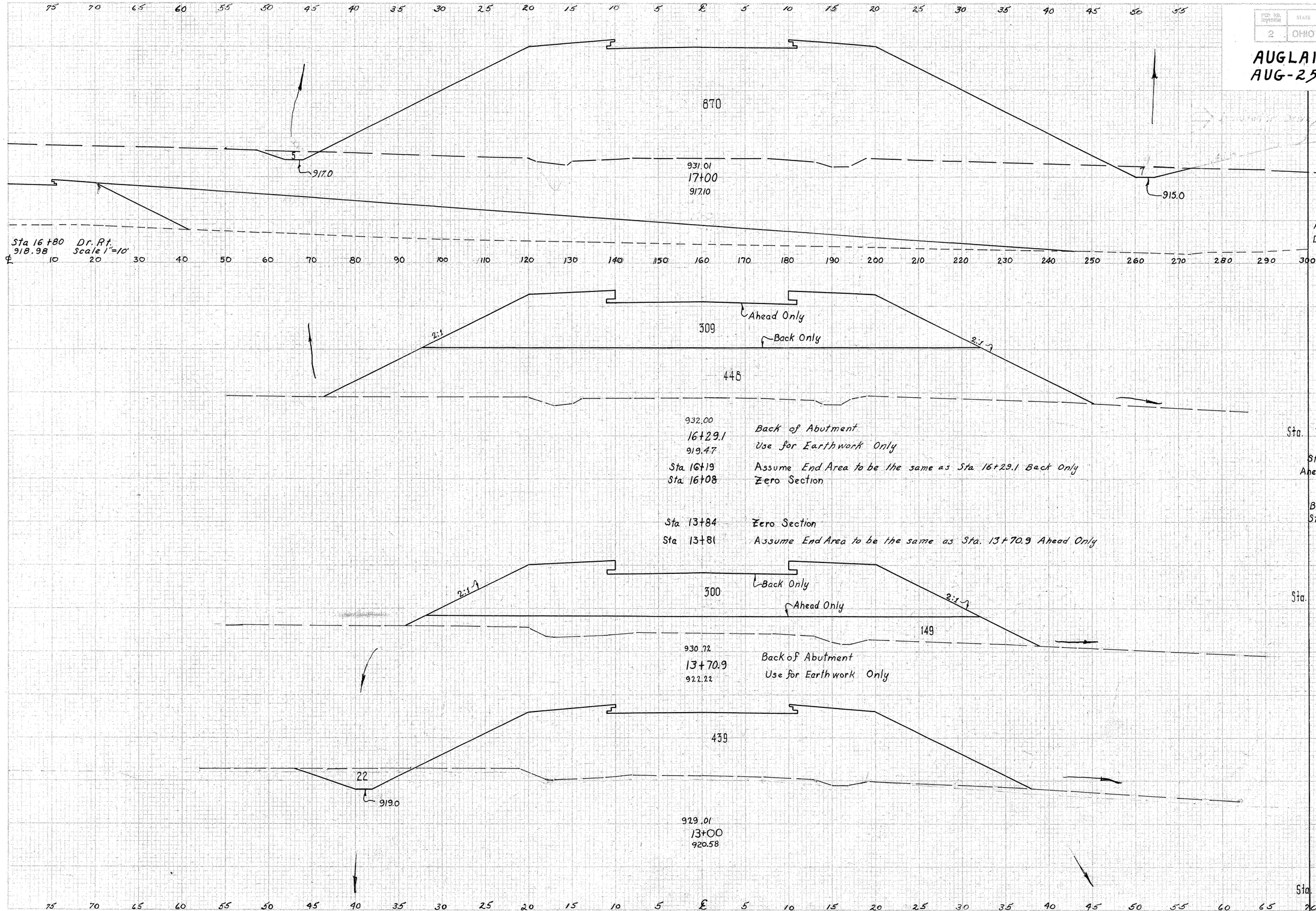
	End Area		Volume	
	Cut	Fill	Cut	Fill
	22	434		
			98	1506
	31	379		
			76	1211
Add for Drive Rt.			1	130
	10	275		
			37	711
Add for Drive Left			2	21
	10	109		
			59	213
	22	6		
			41	11
	0	0		

HENGSTLER RD. X-SECTIONS STA 7+00 TO STA 12+00

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

277
466

AUGLAIZE COUNTY
AUG-25-5.05



	End Area Cut	End Area Fill	Volume Cut	Volume Fill
	12	870		
Add for Drive Rt.			1	171
			16	2136
Ahead	0	757		
Back	0	448		
			0	168
Sta. 16+19	0	448		
			0	91
Sta 16+08 Ahead Only	0	0		
Back Only Sta 13+84	0	0		
			0	8
Sta. 13+81	0	149		
			0	56
Ahead	0	149		
Back	0	449		
			29	1116
	22	439		
			61	1617
Sta. 12+00	22	434		

HENGSTLER RD. X-SECTIONS STA 13+00 TO STA 17+00

FED. ROAD DIVISION	STATE	PROJECT		278 466
2	OHIO			

AUGLAIZE COUNTY
AUG-25-5.05

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

612
912.2
922.50
20+00
913.68
906.5

662
912.0
922.90
19+82
913.71
906.4

723
912.2
925.30
19+00
913.97
910.0

Build Ditch Grade Elev. 912.2 at Sta 18+93
to outlet 8" I-3 Pipe

857
915.0
928.66
18+00
915.04
913.0

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

	End Area Cut	End Area Fill	Volume Cut	Volume Fill
5	612			
			9	425
22	662			
			61	2103
16	723			
			52	2926
10	857			
			48	3217
Sta. 17+00	16	870		

Excavation 921 Cu.Yd.
Embankment 23,471 Cu.Yd.
Embank K 1.5% 26,992 Cu.Yd.

HENGSTLER RD X-SECTIONS STA 18+00 TO STA 20+00

FED. RD. DIVISION	STATE	PROJECT		279
2	OHIO			466

AUGLAIZE COUNTY
AUG-25-5.05

24+25 END WORK

House

27 — 27 — 920.4

922.50
24+00
922.29

Profile of 3.3% Drive Grade

922.32
24+75
921.95

920.0
Proposed 32' of 8"
I-1 Pipe

8" I-3 Pipe

57 — 27 — 5 — 12 — 12 — 919.7 — 919.8

922.18
23+55
921.68

12 — 53 — 25 — 919.0 — 917.5

921.80
23+00
919.79

285

14 — 4:1 — 8 — 914.0 — 913.0

921.10
22+00
915.71

466

3.5:1 — 2.8:1 — 27 — 15 — 912.5 — 909.0

921.10
21+00
913.96

Sta. 20+00

	End Area Cut	End Area Fill	Volume Cut	Volume Fill
Sta 24+25	0	0		
			1	1
Sta 24+00	2	2		
Add for Drive Left			2	6
			23	10
	26	10		
			64	64
	37	53		
			109	626
	22	285		
			72	1391
	17	466		
			39	1996
Sta. 20+00	5	612		

HENGSTER RD. X-SECTIONS STA 21+00 TO STA 24+25

SEITZ-HOLDEN ROAD CONNECTION TABLES & CALCULATIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

280/466

AUGLAIZE COUNTY
AUG-25-5.05

DRAINAGE TABLE

Plan & Profile Sheet No	Reference No	Detail Sheet No	STATION From	STATION To	Side	E-2 Excavation for Structures Cu.Yd.	E-3 Channel Excavation Cu.Yd.	E-12 Pipe Removed 15" & Under Lin.Ft.	E-12 Pipe Removed Over 15" Lin.Ft.	I-1 Pipe for Driveways Lin.Ft. 12"	I-1 15"	I-1 18"	I-3 Roadway Drainage Lin.Ft. 8"	I-3 12"	I-3 15"	I-3 Roadway Drainage under Drives & Approaches Lin.Ft. 12"	I-5 Pipe Specials for I-3 Pipe 8"x45" Each	I-8 No 1-2 A Catch Basin Each	L-10 Sodding Sq.Yd.	S-1 Class "E" Concrete for Structures Cu.Yd.	S-27 43"x27" Sec.M-246.1(A) Pipe or 38"x24" Sec.M-206.4(A) Pipe Lin.Ft.	Remarks
281	1-D		15+00 (S)	16+15 (S)	Lt.			128								115						
281	2-D		15+82 (S)	16+16 (S)	Rt.					36												
281	3-D		0+00 (S-H)	2+60 (S-H)	Rt.								54				1		200			
281	4-D	357	2+40 (S-H)	Structure	&	216	20													7.5	396	2,2'+t
282	1-D		15+13 ±	15+57 ±	Rt.							44										
282	2-D		21+45 ±	21+89 ±	Rt.						44											
283	1-D		26+34 ±	31+36	Rt.								178	4	298			2				
283	2-D		27+75 ±	31+36 ±	Lt.			550														
283	3-D		33+73	34+07	Rt.					34												
Total to Seitz-Holden Road Calculations							20												200			
Total to U.S. 25 Tables						216	20	658		70	44	44	232	4	298	115	1	2	200	7.5	396	

DRIVE AND APPROACH TABLE

Plan & Profile Sheet No	Reference No	Detail Sheet No	STATION From	STATION To	Side	B-35 Asphaltic Concrete Leveling Courses 2" Cu.Yd.	B-119 Crushed Aggregate Base Course Cu.Yd.	I-18 Stabilized Crushed Aggregate for Shoulders & Approaches Cu.Yd.	I-22 Subbase Cu.Yd.	E-1 Compacted Subgrade Cu.Yd.	T-30 Bituminous Prime Coat. 0.35 Gal/Sq.Yd. Gal.	T-32 Road Mix Bituminous Material 0.7 Gal./Sq.Yd. Gal.	T-32 Seal Coat Bituminous Material 0.25 gal/Sq.Yd. Gal	T-32 Aggregate for Road Mix 0.03.75 Cu.Yd. per Sq.Yd. Cu.Yd.	T-32 Aggregate for Choke .004 Cu.Yd. per Sq.Yd. Cu.Yd.	T-32 Aggregate for Seal Coat. .008 Cu.Yd. Per Sq.Yd. Cu.Yd.	T-35 Asphaltic Concrete Surface Course Cu.Yd	Remarks
281	1-A		15+17	15+61 ±	Lt.			14.9			31.3						4.6	Drive & M.B. Left.
281	2-A		16+80 (S)	2+19.51 (S-H)	&		125.0		104.3	861.1	315.0	602.6	215.3	32.3	3.4	6.9		Approach
281	3-A		16+00		Rt.			16.3										Drive Rt.
282	1-A		15+13		Rt.			26.0										Drive Rt.
282	2-A		21+46		Rt.			26.0										Drive Rt.
283	1-A		34+90		Rt.			13.0										Drive Rt.
283	2-A		33+21.03	35+69.99	&	13.6	110.8		90.9	763.6	277.8	363.4	129.8	19.5	2.1	4.2	8.5	Approach
Total To U.S.R. 25 Calculations								100.2										
Total To Seitz-Holden Road Calculations						13.6	235.8	100.2	195.2	1624.7	624.1	966.2	345.1	51.8	5.3	11.1	13.1	

EARTHWORK TABLE

Sheet No	STATION From	STATION To	Excavation Cu.Yd.	Embankment Cu.Yd.	Embankment +15% Cu.Yd.	Roadside Improvement L-9 Seeding & Protection Sq.Yds.
284	16+80 (S)	35+69.99 (S-H)	1040	5204	5985	10,667
Sta. 11+84.65 to Sta. 24+84.65 Included in Main Line Quantities						
Total to U.S. 25 Tables			1040			10,667
Total to (S-H) Calculations			1040	5204	5985	10,667

EARTHWORK CALCULATIONS

Total Embankment +15% = 5985 Cu.Yd.
Excavation available to reduce Borrow 1040 Cu.Yd.
4945 Cu.Yd.
E-3 Channel Excavation to reduce Borrow
20 Cu.Yd.
Total = 4925 Cu.Yd.

Net Embankment required for Seitz-Holden Road connection forwarded to U.S. 25 Tables 4925 Cu.Yd.

CALCULATIONS

ITEM T-35 ASPHALTIC CONCRETE SURFACE TYPE "A" (70-80)

From Drive & Approach Table 13.1 Cu.Yd.

Total to U.S. 25 Calculations 13.1 Cu.Yd.

ITEM T-32 ROAD MIX BITUMINOUS MATERIAL

From Typical Section No 1 = 2080.49 Lin.Ft.
From Typical Section No 2 921.03 Lin.Ft.
Total 3001.52 Lin.Ft.
(3001.52 x 16 ÷ 9) x 0.7 Gal/Sq.Yd. = 3735.2 Gal.

From Drive & Approach Table = 966.2 Gal.
Total 4701.4 Gal.

Total to U.S. 25 Calculations 4701.4 Gal.

ITEM T-32 SEAL COAT BITUMINOUS MATERIAL

From Typical Section No 1 2080.49 Lin.Ft.
From Typical Section No 2 = 921.03 Lin.Ft.
Total 3001.52 Lin.Ft.
(3001.52 x 16 ÷ 9) x 0.25 Gal/Sq.Yd. = 1334.0 Gal.

From Drive & Approach Table = 345.1 Gal.
Total 1679.1 Gal.

Total to U.S. 25 Calculations 1679.1 Gal.

ITEM T-32 AGGREGATE FOR ROAD MIX

From Typical Section No 1 = 2080.49 Lin.Ft.
From Typical Section No 2 921.03 Lin.Ft.
Total 3001.52 Lin.Ft.
(3001.52 x 16 ÷ 9) x 0.0375 Cu.Yd/Sq.Yd = 200.1 Cu.Yd.

From Drive & Approach Table 51.8 Cu.Yd.
Total 251.9 Cu.Yd.

Total to U.S. 25 Calculations 251.9 Cu.Yd.

ITEM T-32 AGGREGATE FOR CHOKE

From Typical Section No 1 2080.49 Lin.Ft.
From Typical Section No 2 = 921.03 Lin.Ft.
Total = 3001.52 Lin.Ft.
(3001.52 x 16 ÷ 9) x 0.004 Cu.Yd/Sq.Yd. = 21.3 Cu.Yd.

From Drive & Approach Table = 5.5 Cu.Yd.
Total 26.8 Cu.Yd.

Total to U.S. 25 Calculations 26.8 Cu.Yd.

ITEM T-32 AGGREGATE FOR SEAL COAT

From Typical Section No 1 = 2080.49 Lin.Ft.
From Typical Section No 2 = 921.03 Lin.Ft.
Total = 3001.52 Lin.Ft.
(3001.52 x 16 ÷ 9) x 0.008 Cu.Yd. 42.7 Cu.Yd.

From Drive & Approach Table = 11.1 Cu.Yd.
Total 53.8 Cu.Yd.

Total to U.S. 25 Calculations 53.8 Cu.Yd.

ITEM B-35 ASPHALTIC CONCRETE LEVELING COURSE (70-80)

From Drive & Approach Table = 13.6 Cu.Yd.

Total to U.S. 25 Calculations 13.6 Cu.Yd.

ITEM T-30 BITUMINOUS PRIME COAT

From Typical Section No 1 = 2080.49 Lin.Ft.
From Typical Section No 2 = 921.03 Lin.Ft.
Total 3001.52 Lin.Ft.
(3001.52 x 17 ÷ 9) x 0.35 gal/Sq.Yd = 1984.3 Gal.

From Drive & Approach Table 624.1 Gal.
Total 2608.4 Gal.

Total to U.S. 25 Calculations 2608.4 Gal.

ITEM B-119 CRUSHED AGGREGATE BASE COURSE

From Typical Section No 1 = 2080.49 Lin.Ft.
From Typical Section No 2 = 921.03 Lin.Ft.
Total = 3001.52 Lin.Ft.
3001.52 x 17 x 5/12 ÷ 27 = 787.4 Cu.Yd.

From Drive & Approach Table 235.8 Cu.Yd.
Total 1023.2

Total to U.S. 25 Calculations 1023.2 Cu.Yd.

ITEM I-22 SUBBASE

From Typical Section No 1 = 2080.49 Lin.Ft.
From Typical Section No 2 921.03 Lin.Ft.
Total = 3001.52 Lin.Ft.
3001.52 x 18 x 4/12 ÷ 27 = 667.0 Cu.Yd.

From Drive & Approach Table = 195.2 Cu.Yd.
Total 862.2 Cu.Yds.

Total to U.S. 25 Calculations 862.2 Cu.Yd.

ITEM E-1 COMPACTED SUBGRADE

From Typical Section No 1 = 2080.49 Lin.Ft.
From Typical Section No 2 = 921.03 Lin.Ft.
Total 3001.52 Lin.Ft.
3001.52 x 16 ÷ 9 = 5336.0 Sq.Yds.

From Drive & Approach Table 1624.7 Sq.Yds.
Total 6960.7 Sq.Yds.

Total to U.S. 25 Calculations 6960.7 Sq.Yds

ITEM E-9 REMOVAL OF TREES AND STUMPS

Estimated (one) Trees and 0 (None) Stumps to be removed and disposed

Total to U.S. 25 Calculations Lump

ITEM E-11 WATER

From Earthwork Tables = 5204.0 Cu.Yds.
From Drive & Approach Table - Item I-18 100.2 Cu.Yds.
From B-119 Calculations = 1023.2 Cu.Yds.
From I-27 Calculations = 862.2 Cu.Yds.
Total = 7,189.6 Cu.Yds.

7189.6 x 5 ÷ 1000 = 35.9 M.Gal.

Total to U.S. 25 Calculations 35.9 M.Gal

ITEM I-9 STONE UNDERDRAIN No 2

Estimated 1020 Lin.Ft. at Stone Underdrain to be placed approximately every 50' as directed by the Engineer.

Total to U.S 25 Calculations 1020 Lin.Ft

ITEM L-9 COMMERCIAL FERTILIZER (10-6-4)

From Roadside Improvement Table = 10,667 Sq.Yd.
From Drainage Table - L-10 Sodding = 200
Total = 10,867 Sq.Yd.
10,867 x 9/1000 x 20/2000 = 0.98 Tons

Total to U.S. 25 Calculations 0.98 Tons.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

281
466

AUGLAIZE COUNTY
AUG- 25-5.05

LIMITED ACCESS

Ex. C.B. BOUNDARY

C. BENJAMIN FESSLER &
CLARA A. FESSLER

C. BENJAMIN FESSLER &
CLARA A. FESSLER

IDA BURDEN

IDA BURDEN

LELA WHEELER

LELA WHEELER

4'of 8" I-3 Pipe

Sta. 573+31 - 66' Lt. 1-C N01-2 A.C.B
℄ 8" 896.5 ; ℄ Grate 899.6

Sta. 572 + 66.07 U.S.R 25 =
Sta. 13+00 Seitz Rd.

Abandon

572 573 574 575 576 577 578 579 580 581 582 583

10' of 8" I-3 Pipe Outlet

20 Cu Yds. 1:10 Dumped Rock Fill

P.I. Sta. 0+96.63 (S-H) =
14+52.98 Seitz Rd.

+38 ℄ Dr. Abandon

Sta. 2+16.51 End Flare

20:1

2+00 (S-H)

3+00(S-H) 4+00(S-H) 5+00(S-H) 6+00(S-H) 7+00(S-H) 8+00(S-H) 9+00(S-H) 10+00(S-H)

Note: Remove Exist. Bit. Surface under E-1, Sec. X-Sections. Drain & leave in Condition for Seeding

Sta. 15+00 - 13' Rt.
℄ 904.6'

E-12 Pipe Removed Ex. 20' of 12" CMP. ℄ Dr. #17

Ex. 5" Pipe Removed E-12

Prop. 12" I-3 Under Dr. & Appr.

Well

Save

Sta. 16+15 - 20' Rt.
℄ 905.5'

Grade Ditch to Drain in Pipe

Sta. 15+40.61 (S-H)
P.I. Sta. 15+19.50 (S-H)
38°

Sta. 15+80 Begin Flare Begin Work

Sta. 574+63 - 165' Rt. - 1-A N01-2 A.C.B
℄ 6" 901.5', ℄ Grate 902.5
4 Of 6" I-3 Pipe

8" I-3 Pipe

Sta. 575+16 - 181' Rt.
84.459 Curve

Begin Sod Sta. 0+00
End Sod Sta. 2+60
Sta. 2+40 Battery of 6 - 5-27 Pipe for Roadway Culverts
See Sheet No 357 for Details

See Detail Sheet No 357 for Quantities

Ex. 15"

10" Fut. 2

6" Fut. 2

15" Fut. 2

See Main Line Plan & Profile for Location Size, & Quantities.

SHEET

END

1-D 1-A 2-A 2-D 3-A 3-D 4-D

906.62 906.36 906.17 906.06 906.02 906.02 906.02 906.02 906.02 906.02 906.02 906.02 906.02 906.02 906.02 906.02 906.02 906.02 906.02 906.02 906.02

P.C. Sta. 0+00 (S-H)
100' V.C.
P.T. Sta. 1+00 (S-H)

910 905 900 895

0.00 %

1.2%

P.I. Sta. 0+50 (S-H)
Elev. 906.02

906.4

1+25 - 905.7
1+35 - 904.6
1+40 - 905.1
1+57 - 904.4
1+81 - 903.4
1+84.85 - 902.9
1+84.85 - 902.7
1+84.85 - 902.2
1+84.85 - 902.1
1+84.85 - 901.5
1+84.85 - 902.6
1+84.85 - 902.4
1+84.85 - 901.7
1+84.35 - 901.2

0+00(S-H) 1+00(S-H) 2+00(S-H) 3+00(S-H) 4+00(S-H) 5+00(S-H) 6+00(S-H) 7+00(S-H) 8+00(S-H) 9+00(S-H) 10+00(S-H)

PLAN & PROFILE STA. 0+00 (S-H) TO STA. 10+00 (S-H) SEITZ - HOLDEN CONNECTION

RED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY
AUG - 25 - 5.05

LIMITED ACCESS BOUNDARY

LELA WHEELER

584 585 586 587 588 589 590 591 592 593 594 595 596

SHEET

See Main Line Plan & Profile Sheet for Quantities

Ex. 18" F.T.
Prop. 24" I-2 Under Pavt.
Ex. 15" F.T.

Ex. 12" F.T.

See Main Line Plan & Profile Sheet for Quantities

Abandon
Gates

LIMITED ACCESS BOUNDARY

10+00(S-H) 11+00(S-H) 12+00(S-H) 13+00(S-H) 14+00(S-H) 15+00(S-H) 16+00(S-H) 17+00(S-H) 18+00(S-H) 19+00(S-H) 20+00(S-H) 21+00(S-H) 22+00(S-H) 23+00(S-H)

SHEET

Prop. 18" I-3 Pipe

Prop. 18" x 44' Pipe for Dr.

Prop. 15" x 44' Pipe for Dr.

LANE Abandon

Ex. 16" F.T.

Ex. 16" F.T.

Ex. 15" F.T.

BEGIN

1-D 1-A 2-D 2-A

LELA WHEELER

END

906.02 906.02 906.02 906.02 906.03 906.04 906.06 906.08 906.14 906.20 906.26 906.32 906.38 906.44 906.50 906.56 906.62 906.68 906.74 906.80 906.86 906.92 906.98 907.04 907.10 907.16 907.22 907.28 907.34

100' V.C.

P.C. Sta. 11+50 (S-H)

P.T. Sta. 12+50 (S-H)

P.I. Sta. 12+00 (S-H)
Elev. 906.02

0.00%

0.12%

910
905
900
895

10+00(S-H) 164.85 - 901.7 11+00(S-H) 164.85 - 901.4 12+00(S-H) 164.85 - 901.5 13+00(S-H) 164.85 - 901.7 14+00(S-H) 164.85 - 901.9 15+00(S-H) 164.85 - 902.1 16+00(S-H) 164.85 - 902.1 17+00(S-H) 164.85 - 902.2 18+00(S-H) 164.85 - 902.4 19+00(S-H) 164.85 - 903.1 20+00(S-H) 164.85 - 902.6 21+00(S-H) 164.85 - 903.0 22+00(S-H) 164.85 - 90 23+00(S-H)

PLAN & PROFILE STA. 10+00 (S-H) TO STA. 23+00 (S-H) SEITZ - HOLDEN CONNECTION

FED. RD. DIVISION	STATE	PROJECT		
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AUGLAIZE COUNTY
AUG - 25 - 5.05

LELA WHEELER

LIMITED ACCESS BOUNDRY

LANE Abandon

SHEET

BEGIN

597 N 20° 09' E 598

℄ of Survey U.S.R. 25

Ex. 15" F.T.

Ex. 15" F.T.

Prop. 24" I-2 Pipe Under Pav't.

See Main Line Plan & Profile Sheets for Location & Quantities

LIMITED ACCESS BOUNDRY

Prop. 24" I-2 Under Pav't.

25+00(S-H)

26+00(S-H)

27+00(S-H)

28+00(S-H)

29+00(S-H)

30+00(S-H)

31+00(S-H)

24+00(S-H)

23+00(S-H)

T.S. Sta. 23+68.22 (S.H.)

Sta. 599+43 - 103' Rt. I-6 NW I-2 A.C.B. ℄ Grate 902.5
15" ℄ 16" 885.95;

S.C. Sta. 26+68.22 (S.H.)

Prop. 15" I-2 Under Pav't.

Prop. 15" I-3 Pipe

Prop. 8" I-3 Pipe

12" F.T.

6" F.T.

Sta. 602+87.54 U.S.R. 25
Sta. 15+00 (Holden Rd.) Abandon

Prop. 24" I-2 Pipe for Storm Sewer

Prop. 15" I-2 Pipe

Prop. 15" S-27

602

601

603

Prop. 24" I-2 Under Pav't.

P.I. Sta. 602+19.85 - 135' Rt. - Sta. 29+04.70 (S-H) =
Holden Rd. Sta. 13+07.06 - 123' Rt.

Prop. 18" I-3 Pipe

I-4 as Per Plan

15+70

Δ = 44.5°

E-12 Pipe Removed

2-D

1-D

3-D

1-A

2-A

~ CURVE DATA ~

P.I. Sta. 29+04.70 (S-H)
Δ = 62° 05' 30"
D = 9° 00'
Ls = 300'
Θs = 13° 30'
p = 5.86
k = 149.72
X = 296.34
yc = 23.47
L.T = 200.56

S.T. = 100.53'
L.C. = 299.26'
Ts = 536.40
Es = 113.27
Δc = 35° 05' 30"
Lc = 389.91

Sta. 29+50 - 103' Rt. I-6 NW I-2 A.C.B. ℄ Grate = 903.5
15" ℄ 8" = 900.80

4 of 12" I-3 Pipe

C.S. Sta. 30+50.13 (S-H)

Sta. 31+36 - 24' Rt. I-6 NW I-2 A.C.B. ℄ Grate = 904.10
8" ℄ 8" = 902.10

4 of 8" I-3 Pipe

32+00(S-H)

33+00(S-H)

34+00(S-H)

35+00(S-H)

Sta. 34+21.05 (S-H)

Sta. 33+21.03 Beam Flare

S.T. Sta. 33+58.13 (S-H)
8" Prop. 12" x 34" Pipe Ins. On ℄ 12' Dr.
+90 ℄ 12' Dr.

End Flare

P.I. Sta. 34+64.03 (S-H)
Sta. 22+50 - 123' Rt.

P.T. Sta. 35+18.99 (S-H)

Sta. 22+50 (Holden Rd.)
Sta. 35+79.99 (S-H)

50'

40'

30'

ALEXANDER H. SCHWEITZER

℄ Buckland-Holden Rd.

To Remain In Place

8" F.T.

6" F.T.

LELA WHEELER

See Main Line Plan & Profile Sheets for Location & Quantities.

907.34 907.40 907.46 907.52 907.58 907.64 907.70 907.76 907.82 907.88 907.94 908.00 908.06 908.12 908.18 908.24 908.30 908.36 908.42 908.48 908.53 908.60 908.71 908.84 909.01 909.21 909.44 909.69 909.90 910.30 910.66 911.05 911.49

915
910
905
900

300' V.C.

P.C. Sta. 32+50 (S-H)

P.T. Sta. 35+50 (S-H)

0.12%

1.50%

P.I. Sta. 34+00 (S-H)
Elev. 908.66

23+00(S-H) 24+00(S-H) 25+00(S-H) 26+00(S-H) 27+00(S-H) 28+00(S-H) 29+00(S-H) 30+00(S-H) 31+00(S-H) 32+00(S-H) 33+00(S-H) 34+00(S-H) 35+00(S-H) +72.99

+84.85 - 903.0
+84.85 - 903.1
+84.9 - 905.2
+87.5 - 903.5
+94 - 903.9
+105 - 904.1
+109 - 904.7
+122 - 904.6
+30 - 905.1
+32 - 904.8
+32 - 905.5
+35 - 906.6
+36 - 906.5
+53 - 910.2
+57 - 910.4
+61 - 908.4
+65 - 908.4
+84 - 909.4
+113 - 909.7
+67 - 910.0
+69 - 910.6
+71 - 910.6
+123 - 910.87
910.80

PLAN & PROFILE STA. 23+00(S-H) TO STA. 35+79.99 (S-H) SEITZ - HOLDEN CONNECTION

FED. RD. DIVISION	STATE	PROJECT	
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AUGLAIZE COUNTY
AUG-25-5.05

End Area	Cu. Yd.
Cut	Fill
Cut	Fill
Fill	

Excavation 1090 CuYd
Embankment 5204 CuYd
Embank. +15% 5985 CuYd

Ahead Sta. 24+84.85
Back Sta. 1+84.85

Add for Dr. Rt. Sta. 16+00
Sta. 0+50

Add for Removal Of Exist. Bit. Mat'l Sta. 16+00
Sta. 0+00

Add for Dr. Rt. Sta. 16+00
Sta. 0+00

Sta. 16+80

Prop. 12" Dr. Pipe

6.2% Grade

NORTH

SEE MAIN LINE SECTIONS FOR STA. 1+84.85 TO 24+84.85

SOUTH

Sta. 16+80 End Work

Sta. 0+32 Drive Lt.

X-SECTIONS SEITZ-HOLDEN CONNECTION ~ STA. 17+00 S To STA. 32+00 S

FED. RD. DIVISION	STATE	PROJECT	
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AUGLAIZE COUNTY
AUG-25-5.05

End Area Cu Yd	Cut	Fill

Included in Buckland-Holden Quantities
Ahead Only

Included in Buckland-Holden Quantities

Add for Dr Rt Sta. 33+90
Sta 33+00

Sta 34+00

Sta. 32+00

5.0 % Grade

Prop 12" Pipe for Dr
Sta 33+90

911.39
35+69.99 (G-H)
910.50

910.87
35+40 (G-H)
910.0

910.30
35+00 (G-H)
909.6

909.21
34+00 (G-H)
908.9

908.60
33+00 (G-H)
907.1

910.68
909.0
907.8
910.45
909.40
907.0
909.50
906.0
910.16
907.5
907.3
906.7
908.85
905.8
910.10
906.6

X-SECTIONS SEITZ-HOLDEN CONNECTION STA. 33+00 TO STA. 35+69.99

BUCKLAND ~ BINGVILLE - HOLDEN ROAD TABLES AND CALCULATIONS

FED. RD. DIVISION	STATE	PROJECT	
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AUGLAIZE COUNTY
AUG-25-**5.05**

DRAINAGE TABLE

Plan & Profile Sheet No.	Reference No.	Detail Sheet No.	Station From	Station To	Side		E-12 Pipe Removed for Storage 15" & Under Lin. Ft.	E-12 Pipe Removed for Storage Over 15" Lin. Ft.	I-1 Pipe for Driveways 12" Lin. Ft.	I-3 Pipe for Roadway Drainage 8" Lin. Ft.	I-3 Pipe for Roadway Drainage 12" Lin. Ft.	I-3 Pipe for Roadway Drainage under Pavt. 8" Lin. Ft.	I-3 Pipe for Roadway Drainage under Pavt. 12" Lin. Ft.	I-3 Pipe Outlet 8" Lin. Ft.	I-5 Pipe Specials 6"x45° for I-3 Pipe Lin. Ft.	I-8 Catch Basins Standard No. 1-2A Each	8" Rdwy. Drainage (2 Part) Sec. McGuffey (Conty) Lin. Ft.	L-10 Sodding Sq. Yds.	Remarks
288	1-D		8+98±	9+68±	Lt.				70										
288	2-D		9+19	9+31	Lt.		12												
288	3-D		9+74	13+26	Rt.						210		52	10				80	
288	4-D		12+00	13+25±	Lt.													125	
288	5-D		16+55±	23+00	Lt.					530		120			1			80	100
288	6-D		16+40±	23+00	Rt.					574		95			1			75	200
289	1-D		23+00	24+37±	Lt.					88		50			1	1			
289	2-D		23+00	24+00	Rt.							100							
Total to Holden Road Calculations																		505	
Total to U.S. 25 Tables							12		70	1192	210	365	52	10	3	1		155	505

DRIVE AND APPROACH TABLE

Plan & Profile Sheet No.	Reference No.	Detail Sheet No.	STATION From	STATION To	Side		B-35 Asphaltic Concrete Leveling Course Cu. Yd.	B-119 Crushed Aggregate Base Course Cu. Yd.	E-1 Compacted Subgrade Sq. Yds.	E-8 Removal & Disposal of Existing Sidewalk Sq. Ft.	I-13 Std. Concrete Sidewalk 4" Sq. Ft.	I-16 Stabilized Crushed Aggregate for Shoulders & Approaches Cu. Yd.	I-22 Subbase Cu. Yd.		T-30 Bituminous Prime Coat @.35 Gal./Sq. Yd. Gal.	T-35 Asphaltic Concrete Surface Course Type "A" Cu. Yd.		Remarks
287	1-A		6+75	7+62	℄		8.2	12.2					5.8		42.0	5.1		
288	1-A		9+20	9+50	Lt.							34.2						Drives Left.
288	2-A		10+00	Mtn. Approach	Lt.							4.7			12.0	1.7		
288	3-A		10+00		Rt.							26.7			35.1	5.1		Drive Rt.
288	4-A		21+00	23+50	℄		23.8	52.8	217.6				37.3		130.0	15.8		
288	5-A	294	22+29.3		Lt.					19	18							Sidewalk
288	6-A		22+84		Lt.							12.5			29.2	4.6		Drive Lt.
Total to Holden Rd. Calculations							32.0	65.0	217.6			78.1	43.1		246.3	32.3		
Total to U.S. 25 Tables										19	18	78.1						

APPROACH SLAB TABLE

Plan & Profile Sheet No.	STATION From	STATION To	I-7 Reinforced Concrete Approach Slab T= 11½" Sq. Yds.	I-22 Subbase Cu. Yd.	E-1 Compacted Subgrade Sq. Yds.		Remarks
288	13+51.45	13+71.45	44.4	8.1	44.4		
288	16+28.55	16+48.55	44.4	8.1	44.4		
Total to Holden Rd. Calculations				16.2	88.8		
Total to U.S. 25 Tables			88.8				

GUARD RAIL TABLE

Plan & Profile Sheet No.	Reference No.	STATION From	STATION To	Side		I-15 Guard Rail Steel Beam Type "Deep" Straight Lin. Ft.	Remarks
288	1-G	10+45.66	13+58	Rt.		312.50	
288	2-G	10+47.16	13+72.14	Lt.		325.00	
288	3-G	16+28	20+52.64	Rt.		425.00	
288	4-G	16+42	20+54.34	Lt.		412.50	
Total to U.S. 25 Tables						1475.0	

EARTHWORK TABLE

Sheet No.	STATION From	STATION To	Excavation Cu. Yd.	Embankment Cu. Yd.	Embank + 15% Cu. Yd.	Roadside Improvement L-9 Seeding and Protecting Sq. Yds.
292	6+50	25+00	692	35,553	40,886	16,892
Total to Earthwork Calculations			692	35,553	40,886	16,892
Total to U.S. 25 Calculations			692			16,892

EARTHWORK CALCULATIONS

Total Embankment + 15% = 40,886 Cu. Yd.
Total Excavation Available = 692 Cu. Yd.
40,194 Cu. Yd.
Net Embankment required for Buckland - Holden Road
Forwarded to U.S. 25 Tables 40,194 Cu. Yds

ITEM T-35 ASPHALTIC CONCRETE SURFACE COURSE Type "A" (70-80)

From Typical Section No. 1 = 1035.9 Lin. Ft.
1035.9' x 20' x $1.25/12 \div 27$ = 79.9 Cu. Yd.
From Typical Section No. 2 Estimated 0.4 Cu. Yd.
From Drive & Approach Table 32.3 Cu. Yd.
Total = 112.6 Cu. Yd.
Total to U.S. 25 Calculations = 112.6 Cu. Yd.

ITEM B-35 ASPHALTIC CONCRETE LEVELING COURSE (70-80)

From Typical Section No. 1 = 1035.9 Lin. Ft.
1035.9 x 20 x $2/12 \div 27$ = 127.9 Cu. Yd.
From Typical Section No. 2 = Estimated 0.6 Cu. Yd.
From Drive & Approach Table 32.0 Cu. Yd.
Total 160.5 Cu. Yd.
Total to U.S. 25 Calculations 160.5 Cu. Yd.

ITEM B-119 CRUSHED AGGREGATE BASE COURSE

From Typical Section No. 1 = 1035.9 Lin. Ft.
1035.9 x 21 x $5/12 \div 27$ = 335.7 Cu. Yd.
From Typical Section No. 2 = Estimated 1.6 Cu. Yd.
From Drive & Approach Table = 65.0 Cu. Yd.
Total = 402.3 Cu. Yd.
Total to U.S. 25 Calculations 402.3 Cu. Yd.

ITEM I-22 SUBBASE

From Typical Section No. 1 = 1035.9 Lin. Ft.
1035.9 x 22 x $4/12 \div 27$ = 281.4 Cu. Yd.
From Typical Section No. 2 = Estimated 1.3 Cu. Yd.
From Drive & Approach Table 43.1 Cu. Yd
From Approach Slab Table 16.2 Cu. Yd.
Total 342.0 Cu. Yd.
Total to U.S. 25 Calculations 342.0 Cu. Yd.

ITEM T-30 BITUMINOUS PRIME COAT (Sec. M 5.7, R.T. 2 or 3) or (Sec. M-5.3, MC Cont)

From Typical Section No. 1 = 1035.9 Lin. Ft.
(1035.9 x 21 ÷ 9) x 0.35 = 846.0 Gal.
From Typical Section No. 2 = Estimated 11.7 Gal.
From Drive & Approach Table 248.3 Gal.
Total 1106.0 Gal.
Total To U.S. 25 Calculations 1106.0 Gal.

ITEM E-1 COMPACTED SUBGRADE

From Typical Section No. 1 = 1035.9 Lin. Ft.
1035.9 x 20 ÷ 9 = 2302.5 Sq. Yd.
From Drive & Approach Table 217.6 Sq. Yd.
From Approach Slab Table 88.8 Sq. Yd.
Total 2608.9 Sq. Yd.
Total to U.S. 25 Calculations 2608.9 Sq. Yd.

ITEM E-9 REMOVAL OF TREES AND STUMPS

Estimated 3 (Three) Trees and 0 (None) Stumps to be removed and disposed of
Total To U.S. 25 Calculations 3 & 0

ITEM E-11 WATER

From Roadway Earthwork Table = 35,553.0 Cu. Yd.
From Drive & Approach Table Item I-18 78.1 Cu. Yd.
From B-119 Calculations = 402.3 Cu. Yd.
From I-22 Calculations = 342.0 Cu. Yd.
Total = 36,375.4 Cu. Yd.
36,375.4 x 5 ÷ 1000 = 181.9 M. Gal.
Total to U.S. 25 Calculations 181.9 Gals.

ITEM I-9 - STONE UNDERDRAIN No. 2

Estimated 585 Lin. Ft. of stone underdrain to be placed Approximately every 50 on each side as directed by the Engineer.
Total to U.S. 25 Calculations 585 Lin. Ft.

ITEM L-9 - COMMERCIAL FERTILIZER (10-6-4)

From Roadside Improvement Table = 16,892 Sq. Yd.
From Drainage Table L-10 Sodding = 505.0 Sq. Yd.
Total 17,397 Sq. Yd.
17,397 $9/1000 \times 20/2000$ = 1.57 Tons
Total to U.S. 25 Calculations 1.57 Tons

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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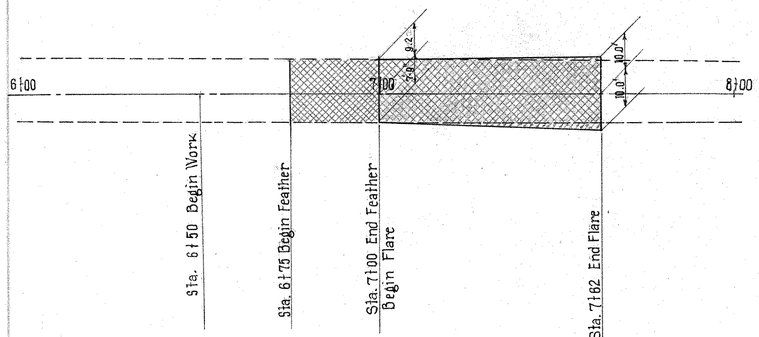
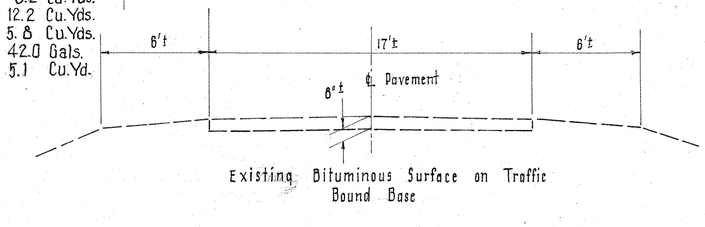
AUGLAIZE COUNTY
AUG-25-5.05

APPROACH STA. 6+75 TO STA. 7+62



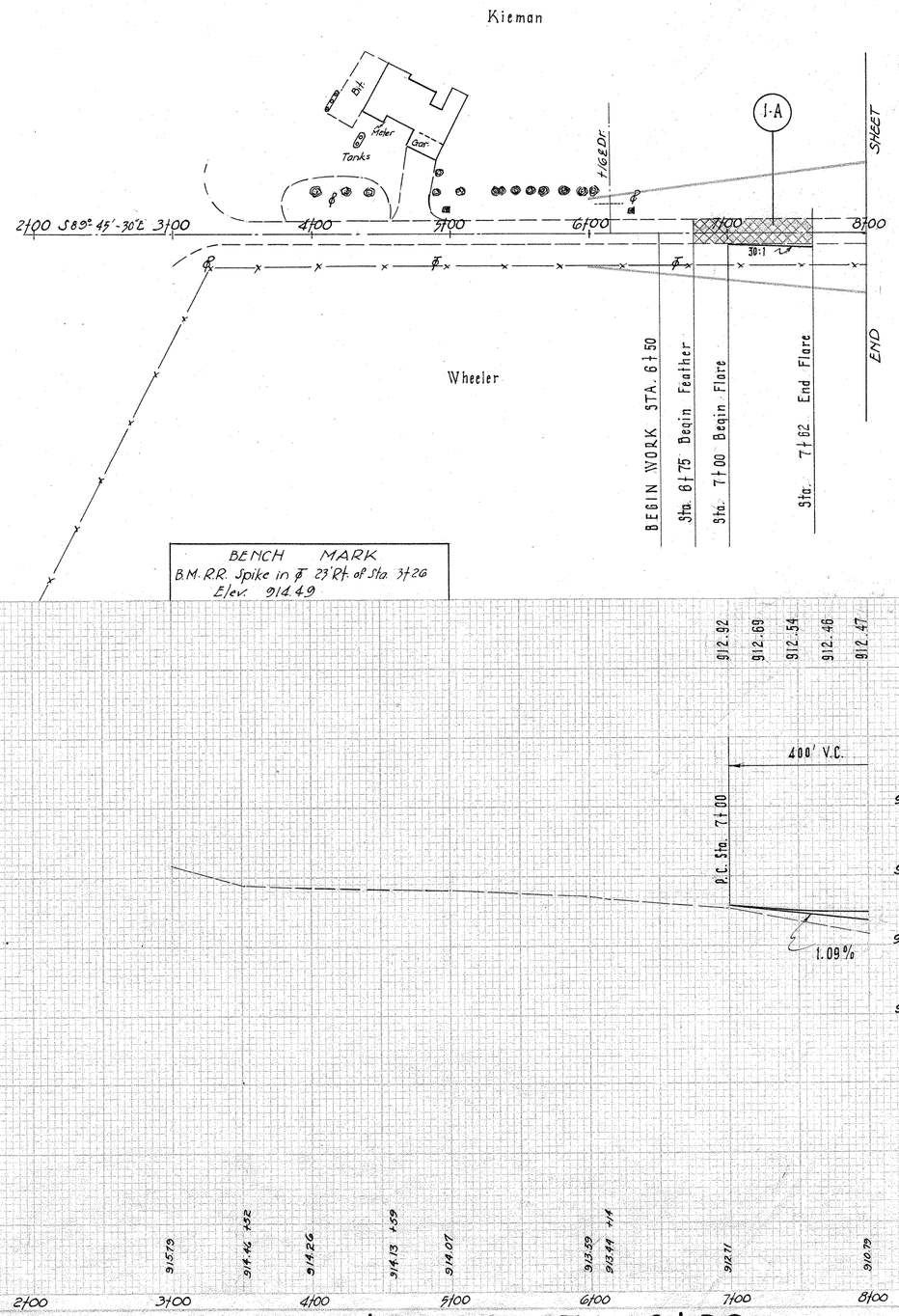
ESTIMATED QUANTITIES

ITEM B-35	Asphaltic Concrete Leveling Course	8.2 Cu.Yds.
ITEM B-119	Crushed Aggregate Base Course	12.2 Cu.Yds.
ITEM 1-22	Subbase	5.8 Cu.Yds.
ITEM T-30	Bituminous Prime Coat	42.0 Gals.
ITEM T-35	Asphaltic Concrete Surface Course Type "A"	5.1 Cu.Yd.



TYPICAL SECTION OF ADJOINING PAVEMENT

N



BUCKLAND-BINGVILLE-HOLDEN ROAD STA. 2+00 TO STA. 8+00

MICROFILMED
DEC 30 1986

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See Sheet № 289 for Details

Note: Location of Apprs. 2A, 3A, & 12" I-3 pipe 3-D may be adjusted during Construction by the Engineer to fit relocated buildings. Quantities shall be adjusted accordingly.

PROPOSED STRUCTURE	
TYPE:	Continuous Steel beam with reinf. Concrete deck and Substructure
SPANS:	56' - 70' - 70' - 56' c to brg.
ROADWAY:	24'-0" F/F 2'-0" Safety Curbs.
LOAD FREQUENCY:	CF-30 (51)
SKEW:	27°-42' left forward
WEARING SURFACE:	½" Monolithic Conc.
APPROACH SLABS:	AS-1-54 (20' long)
ALIGNMENT:	Tangent

BUCKLAND-BINGVILLE-HOLDEN ROAD STA. 8+00 TO STA. 23+00

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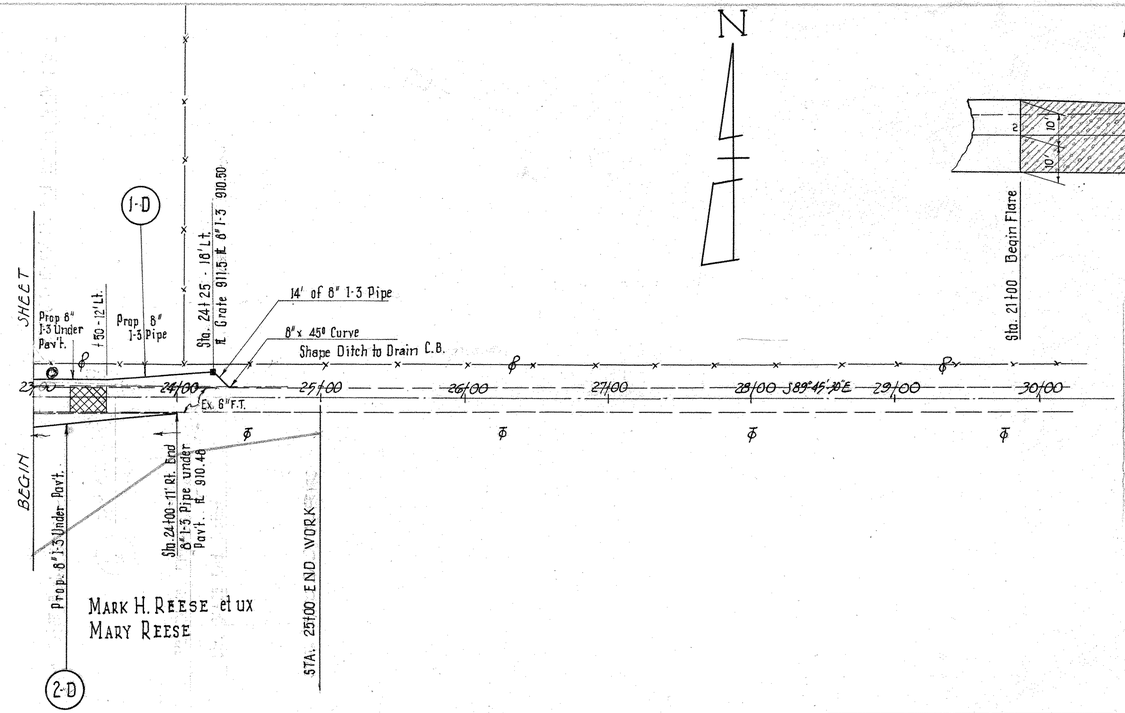
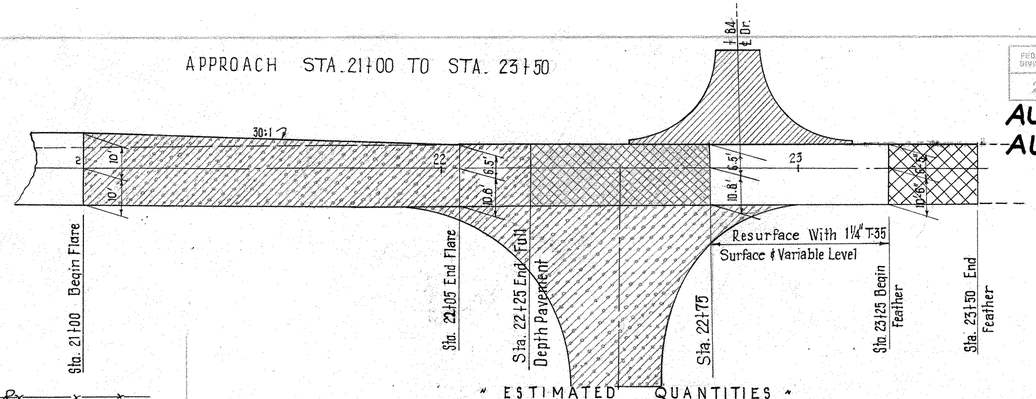
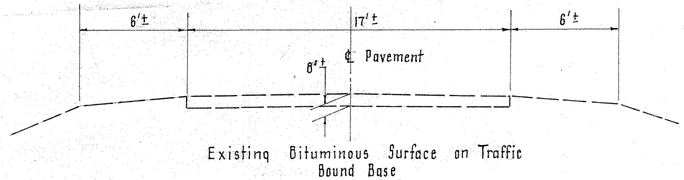
AUGLAIZE COUNTY
AUG-25-5.05





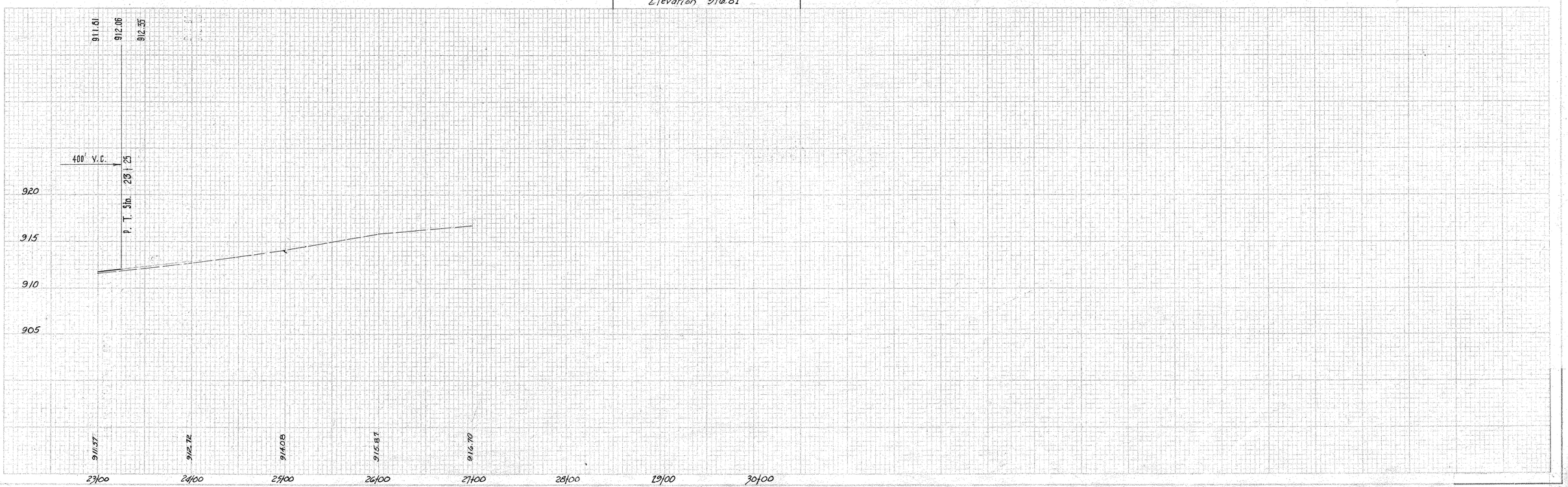
" ESTIMATED QUANTITIES "

ITEM T-35	Asphaltic Concrete Surface Course, Type "A"	15.8	Cu. Yds.
ITEM B-35	Asphaltic Concrete Leveling Course	23.6	Cu. Yds.
ITEM T-30	Bituminous Prime Coat	130	Gals.
ITEM B-119	Crushed Aggregate Base Course	52.8	Cu. Yds.
ITEM 1-22	Subbase	37.3	Cu. Yds.
ITEM E-1	COMPACTED SUBGRADE	217.6	Sq. Yds.



TYPICAL SECTION OF ADJOINING PAVEMENT

BENCH MARK
B.M. R.R. Spike in ℗ 23'Lt. of Sta 29+33
Elevation 916.81



BUCKLAND-BINGVILLE-HOLDEN ROAD STA. 23+00 TO STA. 30+00

PROJ. NO. DIVISION	STATE	PROJECT		290 466
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AUGLAIZE COUNTY
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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

Prop. Profile of Drive Sta 9+50

Prop. 70' of 12" I-3 Pipe

908.0

913.60
9+20 Field Drive Lt.
909.88

4
908.5

913.28
9+00
910.04

150

3
908.0

9
909.0

912.97
8+00
910.79

52

7
909.0

6
910.5

2

912.92
7+00
912.71

2

4
910.5

BEGIN WORK STA 6+50

6+14 Res. Drive Lt.
913.44

911.6

6+00
913.59

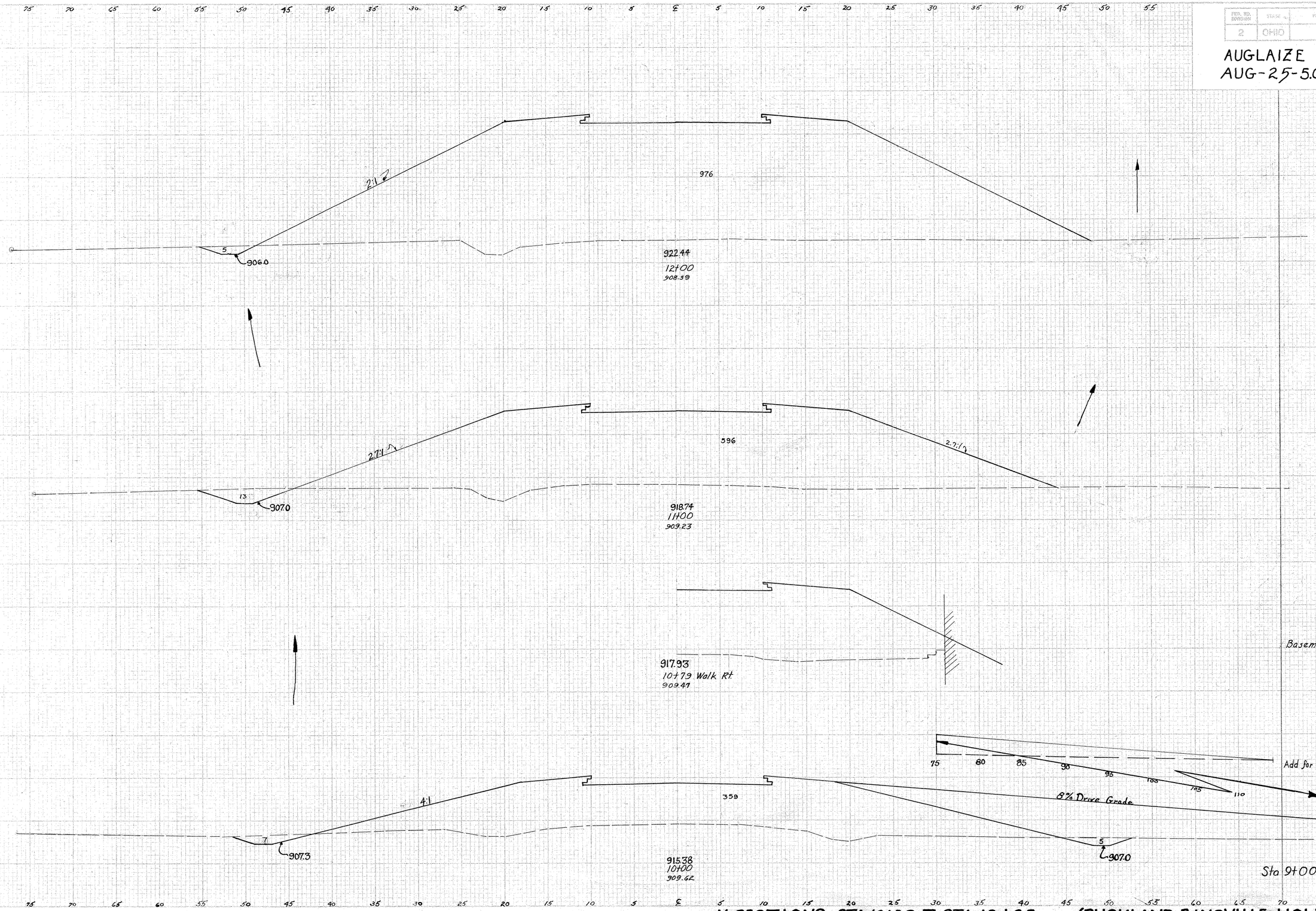
	End Area Cut	End Area Fill	Volume Cut	Volume Fill
Add for Drive Lt Sta 9+50			2	46
Add for Drive Lt Sta 9+20			3	40
	9	150		
			46	374
	16	52		
			48	104
	10	4		
			10	4
Sta 6+50	0	0		

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

X-SECTIONS STA 6+00 To STA. 9+20 (BUCKLAND-BINGVILLE-HOLDEN ROAD)

FED. ROAD DIVISION	STATE	PROJECT		291 466
2	OHIO			

AUGLAIZE COUNTY
AUG-25-5.05



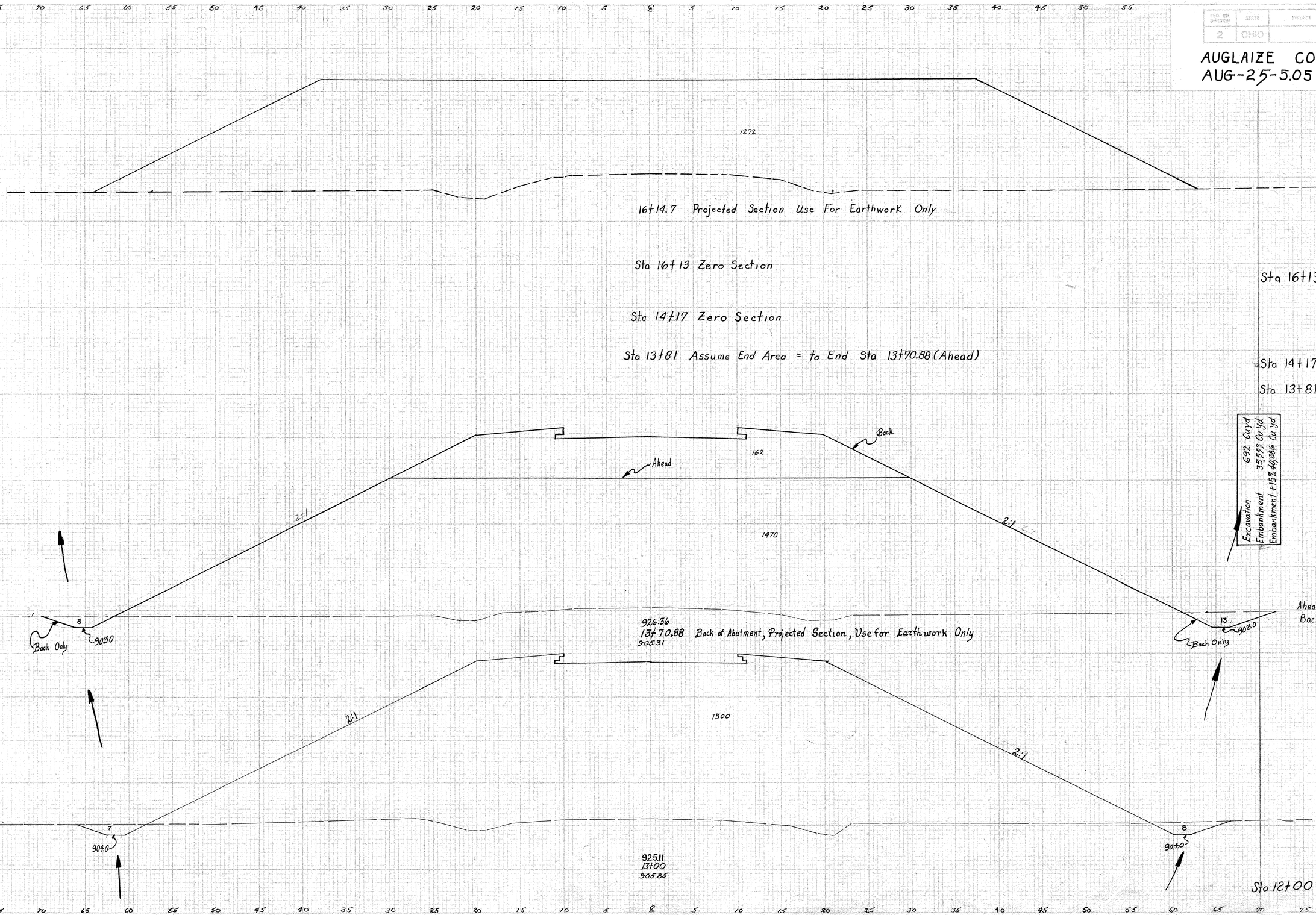
	End Area		Volume	
	Cut	Fill	Cut	Fill
5	976			
			33	2911
13	596			
			46	1769
			1	219
12	359			
			39	943
9	150			

X-SECTIONS STA 10+00 TO STA 12+00 (BUCKLAND-BINGVILLE-HOLDEN ROAD)

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

292
466

AUGLAIZE COUNTY
AUG-25-5.05



692 Cu yd
35,553 Cu yd
40,886 Cu yd
Excavation
Embankment
Embankment +15%

	End Area Cut	End Area Fill	Volume Cut	Volume Fill
	0	1272		
			0	40
Sta 16+13	0	0		
Sta 14+17	0	0		
			0	980
Sta 13+81	0	1470		
			0	551
Ahead	0	1470		
Back	21	1632		
			48	4118
	15	1500		
			37	4585
Sta 12+00	5	976		

X-SECTIONS STA 13+00 To STA 16+14.7 (BUCKLAND-BINGVILLE-HOLDEN

FED. ROAD DIVISION	STATE	PROJECT		293 466
2	OHIO			

AUGLAIZE COUNTY
AUG-25-5.05

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

915.10
20+00
906.99
535
11
904.0
3:1
3:1
8
904.5

855
2.45:1
2.35:1
7
905.6
5
904.0

918.74
19+00
906.04
1260

922.44
18+00
905.68
1631
3
903.3
12
903.0

925.11
17+00
905.38
175
Back
Ahead
903.0
5
903.1

1549
10
902.0
5
902.8

926.36
16+29.12 Back of Abutment Projected Section Use For Earthwork Only
905.58

Sta 16+24.5 Assume End Area equal to End Area Sta 16+29.12 (Back)

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

	End Area		Volume	
	Cut	Fill	Cut	Fill
	19	535		
			57	2574
	12	855		
			50	3917
	15	1260		
			43	5354
	8	1631		
			23	4349
Ahead	10	1724		
Back	10	1549	2	265
Sta 16+24.5	10	1549		
			2	512
Sta 16+19.7	0	1272		

X-SECTIONS STA 16+24.5 To STA 20+00 (BUCKLAND-BINGVILLE-HOLDEN ROAD)

FED. RD. DIVISION	STATE	PROJECT		294
2	OHIO			466

AUGLAIZE COUNTY
AUG-25-5.05

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

Shape Ditch to
Drain back to Catch Basin

25+00
914.08

END WORK

Ditch Shaping

24+00
912.72

Included in Seitz-Holden Connection Back only

17 17

Ahead only

8 18

911.81
23+00
911.57

909.0

Proposed Profile at Drive

911.68
22+83 Res. Drive Lt.
911.22

Elev. 910.63
Elev. 910.25
Elev. 910.41

Prop. Sidewalk = 7'-6" x 2'-4" = 18 Sq. Ft.
E-8 Removal of Exist. Sidewalk 8 x 2.33 = 19 Sq. Ft.

911.54
22+29.5 Walk Lt.
910.28

Included in Seitz-Holden Connection Ahead only

21

Back only

28 13

911.62
22+00
910.03

907.5

15 205 10

906.5 906.0

912.72
21+00
908.50

	END Area		Volume	
	Cut	Fill	Cut	Fill
			5	
	0	0		
			35	17
Ahead	19	9		
Back	1	1		
Abd for Drive Lt.			9	0
			2	41
Ahead	0	21		
Back	13	49		
			70	470
	25	205		
			81	1370
Sta 20+00	19	535		

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

X-SECTIONS STA 21+00 To STA 25+00 (BUCKLAND-BINGVILLE-HOLDEN ROAD)

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

295/466

AUGLAIZE COUNTY
AUG-25-5.05

DRAINAGE TABLE

Plan & Profile Sheet No.	Reference No.	Detail	STATION From	STATION To	SIDE	E-2 Excavation for Structures Cu.Yd.	E-3 Channel Excavation Cu.Yd.	E-12 Pipe Removed 15" and Under Lin.Ft.	E-12 Pipe Removed 15" and Under for Storage Lin.Ft.	E-12 Pipe Removed Over 15" for Storage Lin.Ft.	I-1 Pipe for Driveways 12" Lin.Ft.	I-2 Class "B" Storm Sewers under Pav't and Approaches 12" Lin.Ft.	I-2 Class "A" Storm Sewers 15" Lin.Ft.	I-3 Roadway Drainage 8" Lin.Ft.	I-3 Roadway Drainage 12" Lin.Ft.	I-3 Roadway Drainage Under Pavement or Approaches 8" Lin.Ft.	I-3 Roadway Drainage Under Pavement or Approaches 12" Lin.Ft.	I-3 Outlets for Roadway Drainage 8" Lin.Ft.	I-3 Outlets for Roadway Drainage 12" Lin.Ft.	I-8 No.1-A Catch Basin Each	I-8 No.3-A Catch Basin Each	I-8 No.1 Inlet (Mod.) Each	I-10 Dumped Rock Fill Cu.Yd.	I-16 Catch Basins Abandoned Each	S-1 Concrete for Structures Class "E" Cu.Yd.	S-22 Removal of Portions of Exist. Structures Lump	S-27 12" Pipe for Roadway Culvert, Sec. M-6.6(b) or M-6.6(b) Lin.Ft.	S-27 6'-0" Extra Strength Reinforced Conc. Culvert Pipe M-6.6(c) Lin.Ft.	S-24 Removal of Exist. Structures Lump	Special Expansion Anchor Bolts Ea.	Special Well Abandoned Ea.	Remarks
FEDERAL NON-PARTICIPATION (Exist. U.S.R. 25 North)																																
297	1-D		7+40	18+61.5	Lt.&Rt.	4		559		61	92				130	8	184	56	10				5			5	0.73	Lump	32			8	1	Ex.U.S.R.25
Totals to General Summary FEDERAL NON-PARTICIPATION (Exist. U.S.R. 25 North)						4		559		61	92				130	8	184	56	10				5			5	0.73	Lump	32	3 1/2 ep		8	1	
FEDERAL PARTICIPATION																																
297	2-D		4+83	5+06	Lt.&Rt.																	2				0.2						
297	3-D		5+50	7+70	Lt.&Rt.							50	224																			
297	4-D		5+06	10+43	Rt.			548																								
297	5-D		10+50	11+23	Rt.			73																								
297	6-D		10+03	10+82	Lt.	22		17																21.7								
297	7-D		12+26	16+59	Rt.			842																								
297	8-D		4+83	16+81	Lt.			1235																								
297	9-D		16+80		Lt.&Rt.																										Lump	
297	10-D	361	17+75		Lt.&Rt.	950	2169																	125		19.5			248	11'		
297	11-D		18+00		Rt.														10													
297	12-D		16+89		Rt.														10													
297	13-D		17+95	19+57	Rt.										118		40		10			1										
297	14-D		17+52	19+57	Rt.			205																								
Totals to U.S.R. 25 Drainage Table FEDERAL PARTICIPIATION						960	2169	2920				50	224		118		40	20	10			2	1	146.7		19.7			248	Lump		

GUARD RAIL TABLE

Plan & Profile Sheet No.	Reference No.	Station From	Station To	SIDE	I-15 Guard Rail Steel Beam Type "Deep" Curved 41.5 R. Lin.Ft.	I-15 Guard Rail Steel Beam Type "Deep" Straight Lin.Ft.	I-15 Guard Rail Removed & Stored Lin.Ft.
297	1-G	(8)43.79	10+31	Lt.		187.5	
297	2-G	(8)43.68	10+31	Rt.		187.5	
297	3-G	12+69.5	12+00 (C)	Lt.		375.0	
297	4-G	12+69.5	18+31.7	Rt.		562.5	
297	5-G	16+56	17+03	Lt.&Rt.			75.0
297	6-G	0+96 (D)	18+61±	Lt.	62.5	137.5	
Total to U.S.R. 25 Table FEDERAL PARTICIPATION					62.5	1450.0	75.0

DRIVE AND APPROACH TABLE

Plan & Profile Sheet No.	Reference No.	SIDE	STATION From	STATION To	B-35 Asphaltic Concrete Leveling Course Cu.Yd.	B-35 Asphaltic Concrete Base Course Cu.Yd.	B-119 Crushed Aggregate Base Course Cu.Yd.	I-18 Stabilized Crushed Aggregate Shoulders & Appro. Cu.Yd.	I-22 Subbase Cu.Yd.	T-30 Bituminous Prime Coat @ 0.35 Gal. Per Sq.Yd. Gal.	T-35 Asphaltic Concrete Surface Course Cu.Yd.	T-71 9" Reinf. Portland Cement Concrete Pavement Sq.Yd.	I-12 Std. Comb. Concrete Curb & Gutter Type 2 Lin.Ft.	I-12 Std. Type 2-A Concrete Curb Lin.Ft.	E-6 Removal & Disposal of Exist Pav't. Sq.Yd.	E-6 Removal & Disposal of Exist. Curb Lin.Ft.	E-1 Compacted Subgrade Sq.Yds.
FEDERAL NON PARTICIPATION (Exist. U.S.R. 25 North)																	
297	1-A	Lt.&Rt.	8+62.5	18+61.5	166.7	181.6	725.6	137.1	621.3	1091.7	196.4	404.4	480.0	147.6	37.0	46	2408
Totals to General Summary					166.7	181.6	725.6	137.1	621.3	1091.7	196.4	404.4	480.0	147.6	37.0	46	2408
Totals to National Rd. Calculations																	
FEDERAL NON-PART.-(Exist. U.S.R. 25 North)							725.6	137.1	621.3								
FEDERAL PARTICIPATION																	
297	2-A	Rt.	18+72	—				18.4		46.4	6.7						
298	1-A	Lt.&Rt.	20+03.15	21+25	13.0		25.2		16.3	80.0	9.2						
Totals to U.S.R. 25 Calculations																	
FEDERAL PARTICIPATION					13.0		25.2			126.4	15.9						
To National Rd. Calculations								18.4	16.3								

UNDERDRAIN TABLE

Plan & Profile Sheet No.	Reference No.	STATION From	STATION To	SIDE	I-4 6" Underdrains Lin.Ft.	I-5 Specials for I-4 Underdrains 6"T Each	I-5 Specials for I-4 Underdrains 6"x90° Each	I-5 Specials for I-4 Underdrains 6"x45° Each	I-4 8" Pipe Outlets for Underdrains Lin.Ft.	Remarks
297	1-U	8+87.5	18+12.5	Lt.&Rt.	2020	4	3			Ex.U.S.R.25
Totals to General Summary FEDERAL NON-PART. (Ex.U.S.R.25 North)					2020	4	3			
297	2-U	4+78.41	5+50	Lt.	68			1		
297	3-U	4+78.41	5+50	Rt.	68			1		
297	4-U	5+50	7+00	Lt.	146			1		
297	5-U	5+70	7+70	Rt.	190		1		36	
Totals to U.S.R. 25 Table FEDERAL PARTICIPATION					472		1	3	36	

APPROACH SLAB TABLE

Plan & Profile Sheet No.	Station From	Station To	I-7 Reinf. Conc. Approach Slab T=11½" As Per Plan. Sq.Yd.	E-1 Compacted Subgrade Sq.Yd.	I-22 Subbase Cu.Yd.	I-18 Stabilized Crushed Agg. for Shoulders & Appr. (Cu.Yd.) SQ	B-33 3" Bit. Mac. Base Course Cu.Yds.	T-31 Bitum-Seal Coat (Bitumin-Mat'l.) Gals.	T-31 Bitum. Seal Coat Aggregate (Cu.Yds.) SQ
297	10+15.33	10+35.33	111.1	111.1	31.1				
297	12+64.83	12+84.83	100.0	100.0	29.6	1.0	5.6	1.4	1.0
Total to National Rd. Calc.				211.1	60.7	1.0			
Total to U.S.R. 25 Table			211.1				5.6	1.4	1.0
FEDERAL PARTICIPATION									

EARTHWORK TABLE

Plan & Profile Sheet No.	Station From	Station To	Excavation Cu.Yd.	Embankment Cu.Yd.	Embankment +15% Cu.Yd.	ROADSIDE IMPROVEMENT I-9 Seeding & Protecting Sq.Yd.
FEDERAL NON-PARTICIPATION (Exist.) U.S.R 25 North)						
309	7+40	18+61.5	1528	709	815	4959
From X-Section Sheet No. 297			158	9	10	193
Total to National Rd. Calc.			1686	718	825	5152
" " General Summary			1686			5152

Excavation General Summary 1686 Cu.Yd.
Embankment +15% 825 Cu.Yd.
Net Excavation available to reduce borrow on U.S.R. 25 861 Cu.Yd.

FEDERAL PARTICIPATION

302	4+78.41	22+00	893	46.368	53.323	15277
Total to National Rd. Calc.			893	46.368	53.323	15277
" " U.S.R. 25 Table			893			15277

Total Embankment +15% = 53.323
Total Excavation Available = 893
Net Embankment required for National Rd. (FEDERAL PARTICIPATION) - Forward to U.S.R. 25 Table 52,430 Cu.Yd.

NATIONAL ROAD TABLES

CALCULATIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

296
466

AUGLAIZE COUNTY
AUG-25-5.05

ITEM T-71 9" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT

From Typical Section № 1 — 403.38 Lin. Ft.

403.38 x 53 ÷ 9 =	2375.5 Sq. Yd.
(8+81.78 - 8+36.89) x 3 ÷ 9 =	15.0 Sq. Yd.

From Typical Section № 2 — 133.55 Lin. Ft.

133.55 x 48 ÷ 9 =	712.3 Sq. Yd.
1/2 (10+15.33 ÷ 8+95.33) x 6 ÷ 9 =	40.0 Sq. Yd.

From Typical Section № 3 — 718.82 Lin. Ft.

(14+73.15 - 12+84.33) x 30 ÷ 9 =	629.4 Sq. Yd.
1/2 (16+53.15 - 14+73.15) x (30+36) ÷ 9 =	660.0 Sq. Yd.
(17+53.15 - 16+53.15) x 36 ÷ 9 =	400.0 Sq. Yd.
1/2 (20+03.15 - 17+53.15) x (24+36) ÷ 9 =	833.3 Sq. Yd.
TOTALS:	5665.5 Sq. Yd.

Total to U.S.R. 25 Calculations
(FEDERAL PARTICIPATION) 5665.5 Sq. Yd.

ITEM I-22 SUBBASE

From Typical Section № 1 — 403.38 Lin. Ft.

403.38 x 63 x 6/12 x 1/27	620.0 Cu. Yds.
(8+81.78 - 8+36.89) x 3 x 6/12 x 1/27	2.5 Cu. Yds.

From Typical Section № 2 — 133.55 Lin. Ft.

(133.55 x 80 x 6/12 x 1/27) + (133.55 x 1/12 x 2 x 1/27) =	207.0 Cu. Yds.
1/2 (10+15.33 - 8+95.33) x 6 x 6/12 x 1/27 =	13.3 Cu. Yds.

From Typical Section № 3 — 718.82 Lin. Ft.

(14+73.15 - 12+84.33) x 53 x 6/12 x 1/27 =	185.3 Cu. Yds.
1/2 (16+53.15 - 14+73.15) x (53+59) x 6/12 x 1/27 =	186.7 Cu. Yds.
(17+53.15 - 16+53.15) x 59 x 6/12 x 1/27 =	109.3 Cu. Yds.
1/2 (20+03.15 - 17+53.15) x (59+47) x 6/12 x 1/27 =	245.4 Cu. Yds.
Add for Guard Rail Sections	
(1037.5) x 2 x 6/12 x 1/27	38.4 Cu. Yds.
Deduct for Ramp Approaches	
470.0 x 14.5 x 6/12 x 1/27 =	− 126.2 Cu. Yds.
190 x 11.8 x 6/12 x 1/27 =	− 41.5 Cu. Yds.
From Drive and Approach Table	16.3 Cu. Yds.
" Approach Slab Table	60.7 Cu. Yds.
Total =	1517.2 Cu. Yds.

Total to U.S.R. 25 Calculations
(FEDERAL PARTICIPATION) 1517.2 Cu. Yds

ITEM I-12 STD. TYPE 2-A CONCRETE CURB

From Typical Section № 1

(Left) Sta. 7+76.94 - Sta. 4+76.40	= 298.54 Lin. Ft.
(Right) Sta. 7+70.35 Sta. 4+76.40	= 293.95 Lin. Ft.
(Left) Sta. 8+81.78 Sta. 8+36.89	= 44.89 Lin. Ft.
(Right) Sta. 8+81.78 Sta. 8+36.00	= 43.78 Lin. Ft.

From Typical Section № 2

(Left) Sta. 10+15.33 - Sta. 8+81.78	= 267.10 Lin. Ft.
(Right) Sta. 10+15.33 - Sta. 8+81.78	= 267.10 Lin. Ft.
Total =	1213.36 Lin. Ft.

Total to U.S.R. 25 Calculations
(FEDERAL PARTICIPATION) 1214 Lin. Ft.

ITEM I-21 STD. 4" CONCRETE MEDIAN PAVEMENT Type 1

From Typical Section № 2
Sta. 10+15.33 - Sta. 8+81.78 = 133.55 Lin. Ft.

133.55 x 2 ÷ 9 = 29.6 Sq. Yds.

Total to U.S.R. 25 Calculations
(FEDERAL PARTICIPATION) 29.6 Sq. Yds.

ITEM E-1 COMPACTED SUBGRADE

From Typical Section № 1 — 403.38 Lin. Ft.

403.38 x 53 ÷ 9 =	2375.5 Sq. Yd.
(8+81.78 - 8+36.89) x 3 ÷ 9 =	15.0 Sq. Yd.

From Typical Section № 2 — 133.55 Lin. Ft.

133.55 x 48 ÷ 9 =	712.3 Sq. Yd.
1/2 (10+15.33 - 8+95.33) x 6 ÷ 9 =	40.0 Sq. Yd.

From Typical Section № 3 — 718.82 Lin. Ft.

(14+73.15 - 12+84.33) x 30 ÷ 9 =	629.4 Sq. Yd.
1/2 (16+53.15 - 14+73.15) x (30+36) ÷ 9 =	660.0 Sq. Yd.
(17+53.15 - 16+53.15) x 36 ÷ 9 =	400.0 Sq. Yd.
1/2 (20+03.15 - 17+53.15) x (24+36) ÷ 9 =	833.3 Sq. Yd.
From Approach Slab Table	211.1 Sq. Yd.
TOTAL	5076.6 Sq. Yd.

Total to U.S.R. 25 Calculations
(FEDERAL PARTICIPATION) 5076.6 Sq. Yd.

ITEM E-11 WATER

	FEDERAL NON-PARTICIPATION (Exist. U.S.R. 25 North)	FEDERAL PARTICIPATION
From Roadway Earthwork Table	716 Cu. Yd.	46,368 Cu. Yd.
For I-18 (From Drive and Approach Table)	137.1 Cu. Yd.	19.4 Cu. Yd.
For B-119 (" " " " ")	725.6 Cu. Yd.	25.2 Cu. Yd.
For I-22 (" " " " ")	621.3 Cu. Yd.	1517.2 Cu. Yd.
Totals	2202.0 Cu. Yd.	47,929.8 Cu. Yd.
2202 x 5 ÷ 1000 =	11.0 M. Gals.	
47,929.8 x 5 ÷ 1000 =		239.6 M. Gals.
Total to U.S.R. 25 Calculations	11.0 M. Gals.	
" " " " "		239.6 M. Gals.

ITEM L-9 COMMERCIAL FERTILIZER (10-6-4)

	FEDERAL NON-PARTICIPATION (Exist. U.S.R. 25 North)	FEDERAL PARTICIPATION
From Roadside Improvement Table	5152 Sq. Yd.	15277 Sq. Yd.
Totals	5152 Sq. Yd.	15277 Sq. Yd.
5152 x 9/1000 x 20/2000 =	0.46 Tons	
15277 x 9/1000 x 20/2000 =		1.37 Tons
Total to U.S.R. 25 Calculations	0.46 Tons.	
" " " " "		1.37 Tons

ITEM I-23 PRECAST WHITE PORTLAND CEMENT CONCRETE TRAFFIC DIVIDERS

From Sta. 12+96.63 to Sta. 16+43± 30 Each

Total to U.S.R 25 Calculations
(FEDERAL PARTICIPATION) 30 Each

ITEM E-9 REMOVAL OF TREES AND STUMPS

Estimated 13 (Thirteen) Trees to be Removed & Disposed of
Total to General Summary
FEDERAL NON-PARTICIPATION (Exist. U.S.R. 25 North) Lump

Estimated 2 (two) Stumps to be Removed & Disposed of
Total to U.S.R. 25 Calculations
FEDERAL PARTICIPATION Lump

ITEM I-18 STABILIZED CRUSHED AGGREGATE SHOULDERS & APPROACHES

FEDERAL PARTICIPATION

From Approach Table	18.4 Cu. Yd.
From Approach Slab Table	1.0 Cu. Yds.
	19.4 Cu. Yds.

Total to U.S.R. 25 Calculations 19.4 Cu. Yds.

MICROFILMED
DEC 30 1986

AUGLAIZE COUNTY
AUG - 25 - 5:05

SHEET

END

Begin Flare Sta. 15+00

Prop. 1-4

Exist. U.S.R. 25

Sta. 5+50 3 A.C.B. ℄ Grate 906.03 Lt. 12" 902.50

Sta. 7+00 - 28.5' Lt. End 1-4 Pipe ℄ 903.9

Sta. 7+70 - 66' Lt. 68' Rt. End 15" 1-2 Pipe for Storm Sewers.

Sta. 8+98.97 (A) - 56.11' Lt.

Sta. 9+56.34 (A) - 0+00 (B)

Sta. 8+85.33 - 26' Rt. Begin Flare

Sta. 10+16.55 20' Rt. End Flare

Sta. 6+01.06 (A) - 56' Rt.

Sta. 6+01.78 - 46' Lt.

Sta. 8+01.78 - 46' Lt.

Sta. 0+15.28 (O) - 56' Rt.

Sta. 11+50 National Rd. Sta. 697+93.55

T.S. Sta. 2+50.00 (C) - Sta. 699+65.87 - 52.99' Rt.

S.T. Sta. 15+15.08 (C) - Sta. 13+46.92 National Rd. 19' Lt.

P.T. Sta. 14+91.54 (T) Sta 16+10 - 57' Rt.

Sta. 697+16.16 - 41' Rt. Begin Flare 0+00

Sta. 17+03.15 National Rd. 18' Rt.

Sta. 17+55.15 National Rd. 18' Rt.

Sta. 11+26.17 6' Lt.

T.S. Sta. 11+56.9 (O)

Sta. 1+83.00 (O) 27' Lt.

Sta. 1+74.18 - 64' Rt. - 56' Rt.

Sta. 19+10

Sta. 16+82.24 - 42' Rt. 1-6 N9 Inlet ℄ (Mod.)

Sta. 19+57 - 42' Rt. End 12" 1-5 Pipe ℄ 893.5

Sta. 16+82.24 - 42' Rt. End 12" 1-3 Pipe ℄ 892.5

Sta. 17+95.73' Rt. Begin 10' of 12" 1-5 Pipe outlet 885.5

10' of 8" 1-3 Pipe Outlet

Prop. 10' of 8" 1-3 Pipe Outlet

Sta. 7+70 - 68.5' Rt. End 15" 1-2 Pipe for Storm Sewers. Sta. 7+70.35 - 76' Rt.

Sta. 15+00 on Exist. U.S.R. 25 Sta. 4+05.57 National Rd.

Sta. 5+50 FL Grate 906.03 FL 15" 12" - 902.00

Sta. 6+50 FL 902.60

Sta. 6+01.00 (National Rd.) = Sta. 9+56.34 (A) - 0+00 (B)

Sta. 6+98.97 (A) - 56.11' Lt.

Sta. 8+85.33 Begin Flare

Sta. 6+01.06 (A) - 56' Rt.

Sta. 6+66.1+54.71

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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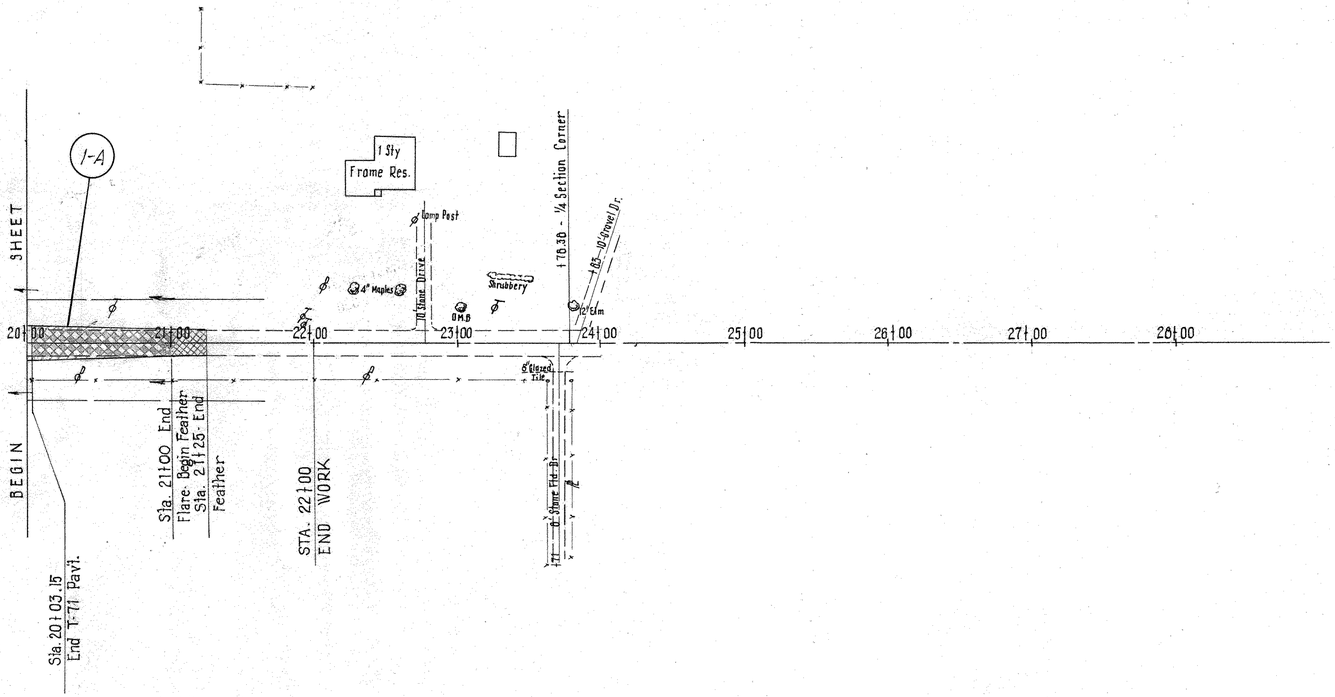
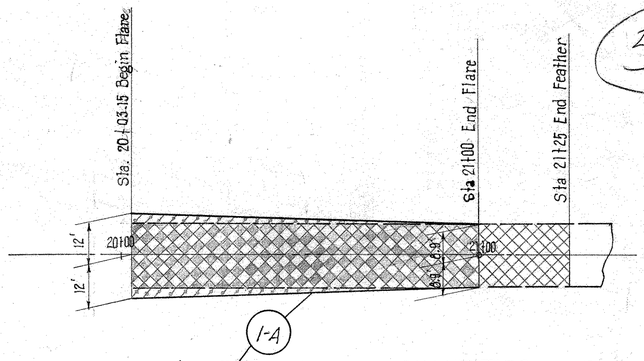
466

AUGLAIZE COUNTY
AUG-25-5.05

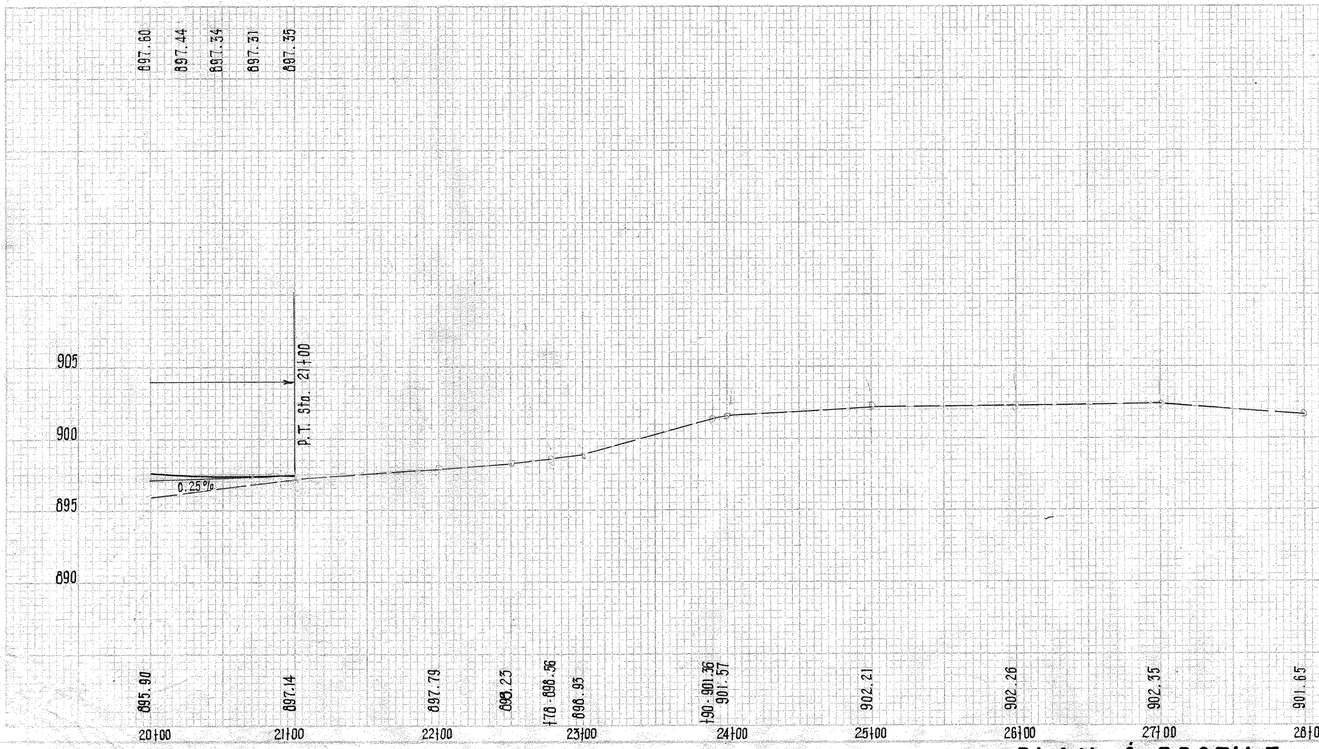
501





ESTIMATED QUANTITIES

ITEM T-35	Asphaltic Concrete Surface Course	9.2	Cu. Yds.
ITEM B-55	Asphaltic Concrete Leveling Course	13.0	Cu. Yds.
ITEM T-30	Bituminous Prime Coat	80	Gal.
ITEM B-119	Stabilized Crushed Aggregate Base Course	25.2	Cu. Yds.
ITEM 1-22	Subbase	16.3	Cu. Yds.



PLAN & PROFILE STA. 20+00 TO STA. 28+00 NATIONAL ROAD

FED. AID DIVISION	STATE	PROJECT		
2	OHIO			

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466

AUGLAIZE COUNTY
AUG-25-5.05

	End Area Volume			
	Cut	Fill	Cut	Fill
6+75				
			19	97
14+30				
			128	67
55+6				
			50	5
Sta. 4+78.41				
68+6				
70+6				
84+6				
			79	3
Sta. 4+27.57				
105+0				

PARTICIPATION (Ex. U.S.R. 25 North)

Include in FEDERAL MONY

Excavation	158 C.Y.
Embankment	9 C.Y.
Embank. f 15%	10 C.Y.
Seeding	192.3 S.Y.

907.39
6+50
905.86

906.82
6+00
905.88

906.68
5+08 Res. Drive Rt. (Abandon)
906.24

906.71
5+00
906.28

907.16
4+50
907.1

4+27.57
907.5

Included in Exist
U.S.R. 25 Quantities

Included in Exist
U.S.R. 25 Quantities

X-SECTIONS NATIONAL ROAD APPROACH STA. 4+27.57 TO STA. 6+50

AUGLAIZE COUNTY
AUG-25-5.05

End Area Volume			
Cut	Fill	Cut	Fill
		14	1732
		28	5602
Ahead 1	1293		
Back 0	680		
		0	426
Ahead 0	87		
Back 20	369		
		65	722
		30	188
		34	211
Sta 6+50	6	75	

70 60 50 40 30 20 10 ℄ 10 20 30 40 50

100 90 80 75

10+17

14

2:1

1705

13

898.5

Included in Ramp "B" Back

916.17
10+00
897.85

Included in Ramp "A" Back

13

13

Included in Ramp "B"

2:1

2:1

306

680

281

914.08
9+00
900.06

Included in Ramp "B" Ahead

Included in Ramp "A" Ahead

14

109

87

159

8

902.0

12

901.3

910.11
7+70
902.64

36

1

127

25

23

7

903.0

903.7

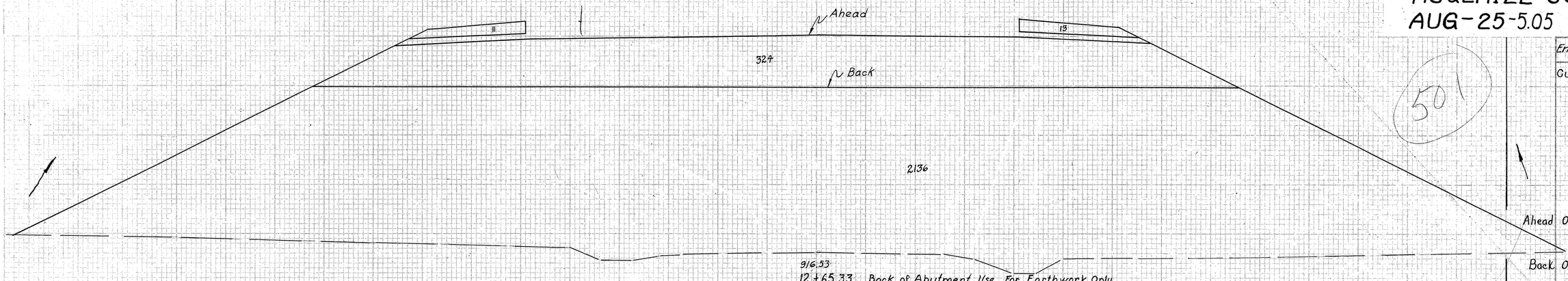
908.29
7+00
904.85

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

X-SECTIONS NATIONAL ROAD APPROACH STA. 7+00 TO STA. 10+00

AUGLAIZE COUNTY
AUG-25-5.05

70 60 50 40 30 20 10 ℄ 10 20 30 40 50



501

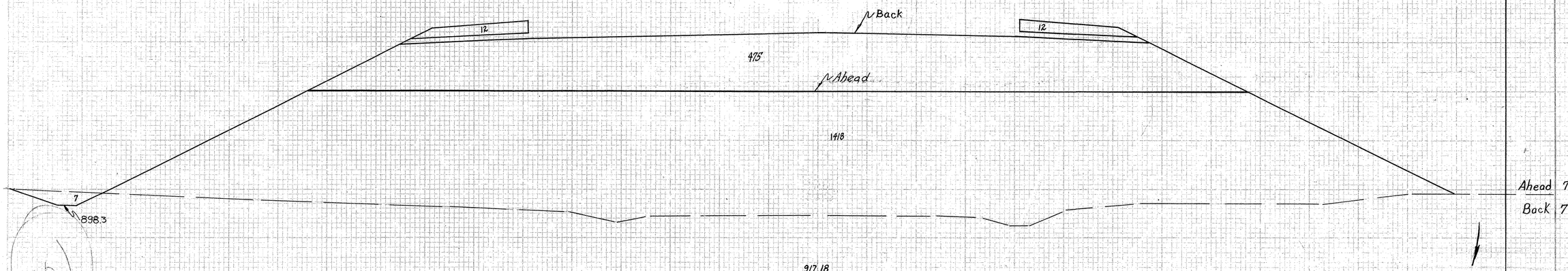
	End Area Cut	End Area Fill	Volume Cut	Volume Fill
Ahead	0	2584		
Back	0	2136		
			0	738
Sta 12+56	0	2136		
			0	1276
Sta 12+24.5	0	0		
Sta 10+70	0	0		
			3	683
Sta 10+44	7	1418		
			2	482
Ahead	7	1418		
Back	7	1917		
			14	2354
Sta 10+00	14	1732		

Sta. 12+56 Assume End Area equal to End Area Sta. 12+65.33 (Back)

Sta. 12+24.5 Zero Section

Sta. 10+70 Zero Section

Sta 10+44 Assume End Area equal to End Area Sta 10+34.83 (Ahead)



50

Culvert 15-505

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

X-SECTIONS NATIONAL ROAD APPROACH STA. 10+34.83 TO STA. 12+65.33

FED. RD. DIVISION	STATE	PROJECT		302 466
2	OHIO			

AUGLAIZE COUNTY
AUG-25-5.05

End Area		Volume	
Cut	Fill	Cut	Fill

Included in Ramp "C."

Included in Ramp "C" Ahead.

8

2:1

1313

10 1321

9/0.73
15+00
888.92

6

9

885.5

56 5058

1404

953

FEDERAL PARTICIPATION
Excavation 833 Cu.Yd.
Embankment 46,368 Cu.Yd.
Embank. f 15% 53,323 Cu.Yd.

Ahead 20 1410
Back 26 2369

892.0

9/3.85
14+00
890.65

17
888.5

75

893.0

80

2406

96 8864

2:1

26 2418

17 3212

9/6.03
13+00
892.60

17
890.5

75

Ahead 0 2584
Sta 12+65.33
Back 0 2136

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

X-SECTIONS NATIONAL ROAD APPROACH STA. 13+00 TO STA. 15+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

303
466

AUGLAIZE COUNTY
AUG-25-5.05

Included in Ramp "D"

Included in Ramp "D"

Included in Ramp "C"
Back

Included in Ramp "D"
Ahead

Included in Ramp "C"

Exist. Channel Backfill

904.23
17+00
889.15

904.71
16+85
889.05

905.83
16+50
888.81

907.48
16+00
888.47

987

1028

324

1142

1583

2:1

	End Area		Volume	
	Cut	Fill	Cut	Fill
8		993		
889.6				
			4	563
7		1034		
884.7				
8		1414		
Ahead	6	1148		
Back	6	1466		
6				
884.8				
9		2889		
3		1589		
885.0			24	5389
Sta 15+00	10	1321		

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

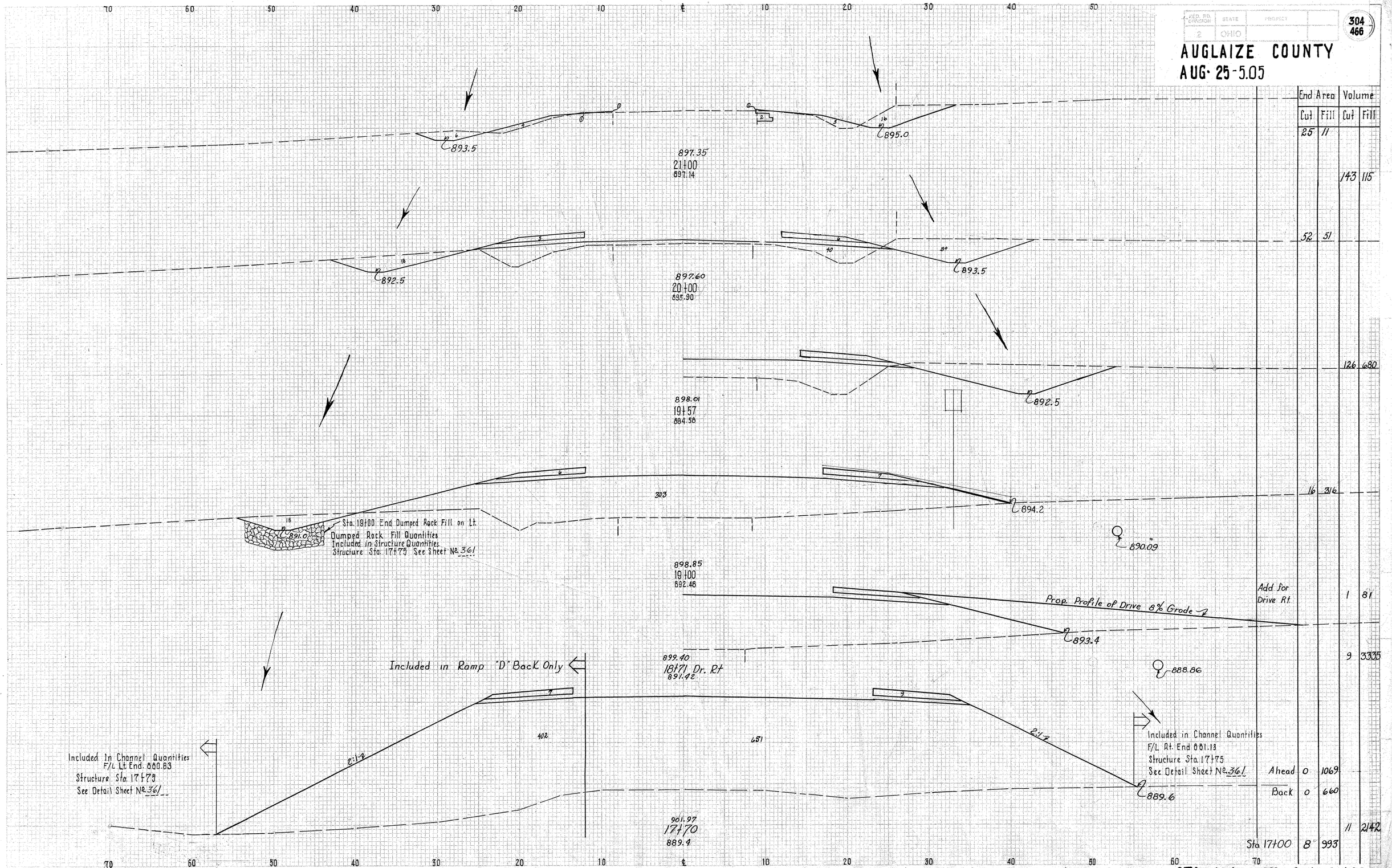
X-SECTIONS NATIONAL ROAD APPROACH STA. 16+00 TO STA. 17+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

304
466

AUGLAIZE COUNTY
AUG-25-5.05

	End Area		Volume	
	Cut	Fill	Cut	Fill
	25	11		
			143	115
	52	51		
			126	680
			16	316
Add for Drive Rt.			1	81
			9	3335
Ahead	0		1069	
Back	0		660	
			11	2142
Sta 17+00	8		993	



X-SECTIONS NATIONAL ROAD APPROACH STA. 17+70 TO STA. 21+00

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

305
466

AUGLAIZE COUNTY
AUG-25-5.05

End Area		Cu. Yd.	
Cut	Fill	Cut	Fill

70 60 50 40 30 20 10 ℄ 10 20 30 40 50

24+00
901.57

23+90 Drive Lt.
901.36

23+72 Field Drive Rt.
900.82

23+00
896.93

22+78 Res. Drive Lt.
896.56

22+50
896.25

22+00 *END WORK*
897.79

Sta. 22+00

Sta. 21+00 25 11

0 0

46 20

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

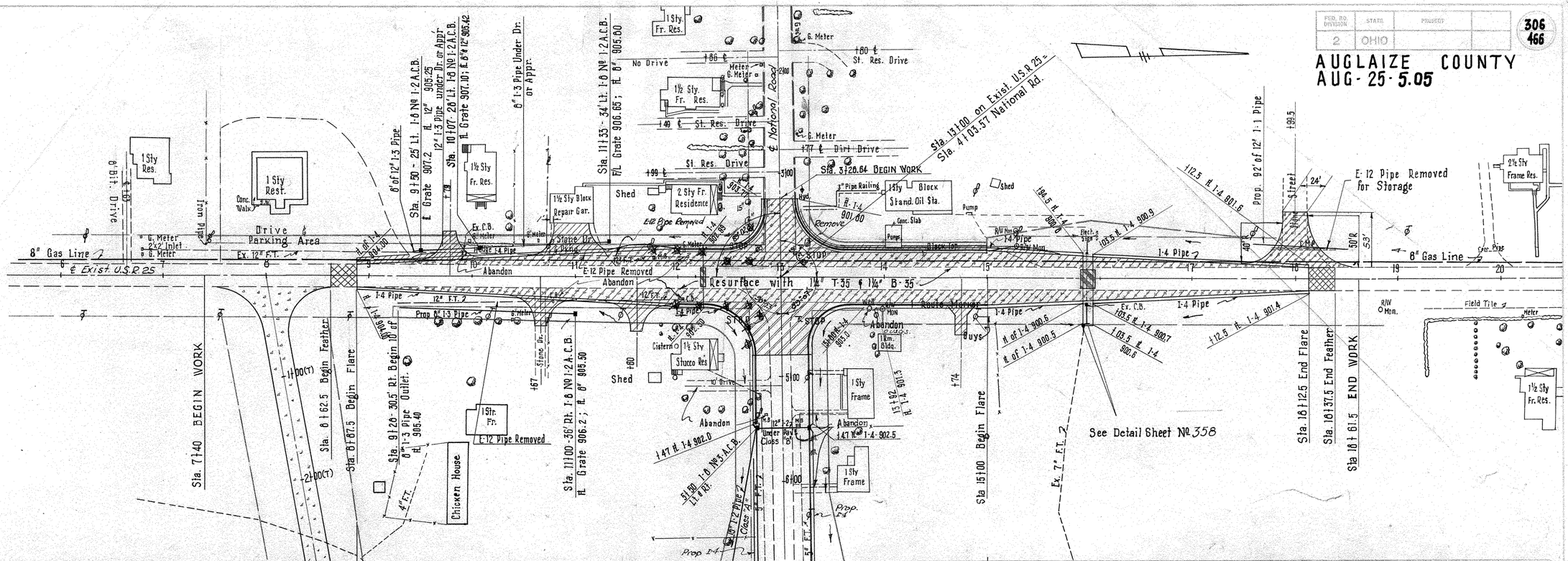
5.05-13.29
I.R. 75

X-SECTIONS NATIONAL ROAD APPROACH STA. 22+00 TO STA. 24+

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

306
466

AUGLAIZE COUNTY
AUG-25-5.05



NON - PARTICIPATION

(1-A)

Item T-35 Asphaltic Concrete Surface Course, Type "A" (70-80)	196.4	Cu.Yds.
Item B-35 Asphaltic Concrete Leveling Course (70-80)	166.7	Cu.Yds.
Item B-35 Asphaltic Concrete Base Course (70-80)	181.6	Cu.Yds.
Item T-30 Bituminous Prime Coat	1091.7	Gals.
Item B-119 Crushed Aggregate Base Course	725.6	Cu.Yds.
Item 1-18 Stabilized Crushed Aggregate Shoulders & Approaches	137.1	Cu.Yds.
Item 1-22 Subbase	621.3	Cu.Yds.
Item T-71 9" Reinforced Portland Cement Concrete Pavement	404.4	Sq.Yds.
Item 1-12 Standard Combination Concrete Curb & Gutter, Type 2	480.0	Lin.Ft.
Item 1-12 Standard Type 2-A Concrete Curb	147.6	Lin.Ft.
Item E-8 Removal & Disposal of Existing Pavement	37.0	Sq.Yds.
Item E-8 " " " " Existing Curb	46.0	Lin.Ft.
Item E-1 Compacted Subgrade	2408	Sq.Yds.

See Plan Detail Sheet № 307

NON - PARTICIPATION

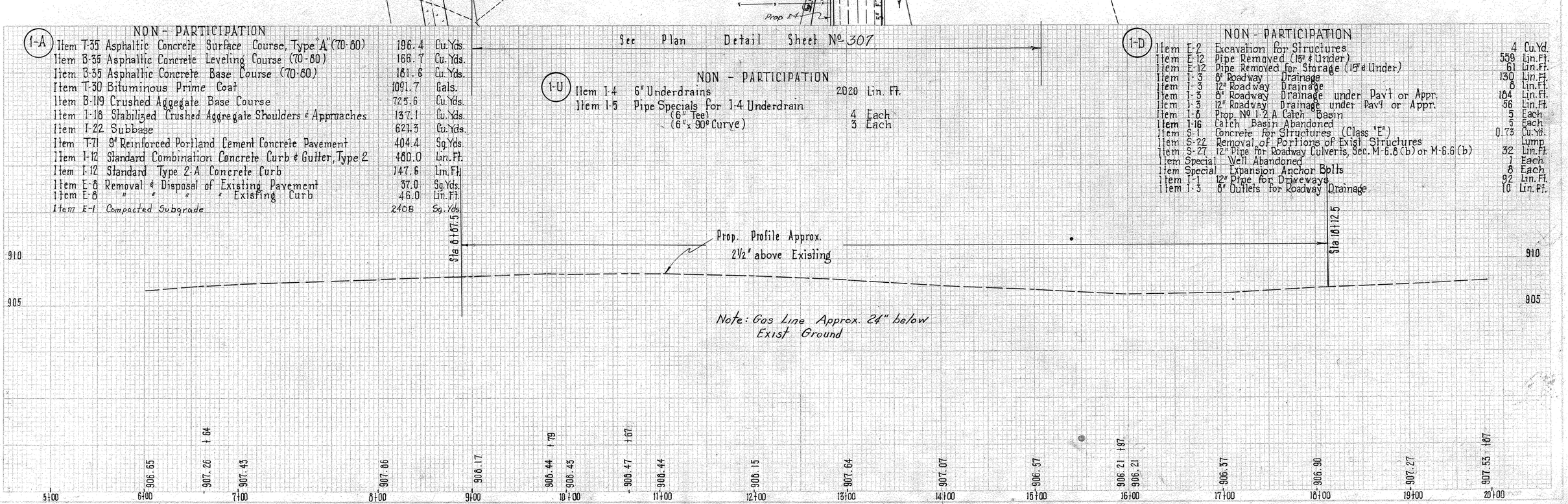
(1-U)

Item 1-4 6" Underdrains	2020	Lin. Ft.
Item 1-5 Pipe Specials for 1-4 Underdrain (6" Tee)	4	Each
(6" x 90° Curve)	3	Each

NON - PARTICIPATION

(1-D)

Item E-2 Excavation for Structures	4	Cu.Yd.
Item E-12 Pipe Removed (15" & Under)	559	Lin.Ft.
Item E-12 Pipe Removed for Storage (15" & Under)	61	Lin.Ft.
Item 1-3 8" Roadway Drainage	130	Lin.Ft.
Item 1-3 12" Roadway Drainage	8	Lin.Ft.
Item 1-3 8" Roadway Drainage under Pav't or Appr.	184	Lin.Ft.
Item 1-3 12" Roadway Drainage under Pav't or Appr.	56	Lin.Ft.
Item 1-6 Prop. № 1-2 A Catch Basin	5	Each
Item 1-16 Catch Basin Abandoned	5	Each
Item S-1 Concrete for Structures, (Class "E")	0.73	Cu.Yd.
Item S-22 Removal of Portions of Exist Structures	Lump	
Item S-27 12" Pipe for Roadway Culverts, Sec. M-6.6 (b) or M-6.6 (b)	32	Lin.Ft.
Item Special Well Abandoned	1	Each
Item Special Expansion Anchor Bolts	8	Each
Item 1-1 12" Pipe for Driveways	92	Lin.Ft.
Item 1-3 8" Outlets for Roadway Drainage	10	Lin.Ft.



PLAN & PROFILE EXIST. U.S.R. 25 AT NATIONAL ROAD

ROAD APPROACH NATIONAL ROAD & EXISTING U.S. 25

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY
AUG - 25 -505

PROFILE OF NATIONAL ROAD

909 907 905 903
905.50
905.63 3+00
906.14
906.20 Butt Joint 906.20 +26.64
906.73 906.50 +51 +50
907.36 +75
907.47 +79.57
907.42
907.56 4+00 +95
907.85 907.64
2.4%
1.58%

No Drive
℄ +86
Meter
G Meter
1½ Story Frame Res.
S.W.
St. Dr. Residence
℄ +49
℄ +80 St. Res. Drive
℄ National Road
2+00
3+00
G. Meter
+77 ℄ Dirt. Drive
+99 ℄ Stone Drive
Sta. 3+28.64 BEGIN WORK
1½ Sty. Fr. Res.
Sta. 10+07 - 26' Lt. 1-6 No 1-2 A.C.B. ℄ Grade 907.10 - ℄ 8" & 12" 905.42
No 1-2 A.C.B. ℄ 8" 905.60
Sta. 11+33 - 34' Lt. 1-6 ℄ Grade 906.65 ;
Shed
1 Sty. Block Repair Gar.
35'
2 Sty. Fr. Res.
1-4 ℄ 903.26
906.47
Sta. 3+36.65
906.65
907.10
907.32
907.64
907.91
Sta. 12+44.66
906.47
Sta. 12+00 Curb & Gutter
1-4 ℄ 902.99
3" Pipe Railing
Hyd.
906.47
Sta. 3+28.64
906.62
907.64
907.06
907.29
907.46
907.58
907.62
907.59
Sta. 113+62.73
Gas Tank Pipes
1 Sty. Block Standard Oil Sta.
Conc. Slab
1 Pump
Shed
Stone Pkng.
R/W Mon.
1-4 Pipe
Conc. Pumps Slab
4" Bit. Drive
Sta. 9+50 - 25' Lt. 1-6 No 1-2 A.C.B. ℄ Grade 907.2 ; ℄ 12" 905.25
12" 1-3 Under Dr. & Appr.
8" 1-3 Pipe Under Pavt & Appr.
Ex. 12" R.C.P. (Remain in place)
8' of 12" 1-3 Pipe
1-4 Pipe Underdrain
℄ 1-4 904.00
G. Meter
G. Meter
Stone Dr. & Parking
17'
12" F.T.
M.B.
C.B.
1-4 Pipe Underdrain
G. Meter
Depress Curb
Depress Curb

9+00 ℄ Exist. U.S.R. 25
10+00 Abandon
11+00
E-12 Pipe Removed
12+00
4+00
Sta. 13+00 on Exist U.S.R 25 - Sta. 4+03.57 National Rd.
Abandon
Abandon
1-4 Pipe Underdrain 12" F.T.
Prop. 8" 1-3 Pipe
℄ 1-4 904.00
Sta. 8+87.5 Begin Flare Begin 1-4 Pipe Underdrain
Sta. 9+26' - 30.5' Rt. Begin 10' of 8" 1-3 Outlet ℄ 905.40
100' of 8" 1-3 Pipe
E-12 Pipe Removed
Gas Meter
60' of Pavt &
10' Stone Res. Dr.
8" 1-3 Under Approaches
1-3 NW 1-2 A.C.B.
Sta. 11+00 - 36' Rt. ℄ Grade 906.2 ℄ 8" 905.70
℄ +67
+60
2.6'
2.8'
C.B.
Curb & Gutter Sta 12+00
1-4 ℄ 902.30
Sta. 12+25.16
908.33
908.26
908.16
908.02
907.78
907.47
907.24
907.06
906.95
6.99
Sta. 4+78.41
Cistern
1½ Sty Fr. Res.
Shed
Well
Gravel Drive
5+00
1-4 Pipe
1-4 Pipe
Sta. 5+78 - 26.5' Rt. Begin 1-4 ℄ 902.60
5" F.T.
6" F.T.
+47 ℄ 1-4 902.0
+47 ℄ 1-4 902.6
Abandon
+53 ℄ of 1-4 902.5
907.02
Sta. 4+70.60
Sta 4+78.41
906.95
907.45
907.30
907.15
907.02
907.56
907.37
907.17
907.00
12.68'
40' R
Sta. 13+67.05
+00 ℄ of 1-4 903.0
Well
Abandon
1 Sty. Non Res.
S.W
1 Sty. Fr. Res.
Gravel Drive
℄ R/W Mon
1-4 Pipe Underdrain
192 ℄ of 1-4 901.3
8 U.S.O.S.
+74 ℄ Dr.
20'-0"
4"
4"
4"
Guys
Curb Transitions 6" to 2"

Note: Length of curb measured along back of curb.

Note: For this Detail Curb Transition from 6" to 2" in 4'-0"

ROAD APPROACH NATIONAL ROAD & EXISTING U.S. 25

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY
AUG-25-5.05

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		3	0
15	8		
		28	15
0	0		

9+79 Dr. Lt (Gravel)
908.44
907.5

Add for Drive Lt.

9+00
908.17
905.3

8+00
907.86
905.1

Sta. 7+40 BEGIN WORK

Sta. 7+40

7+00
907.43

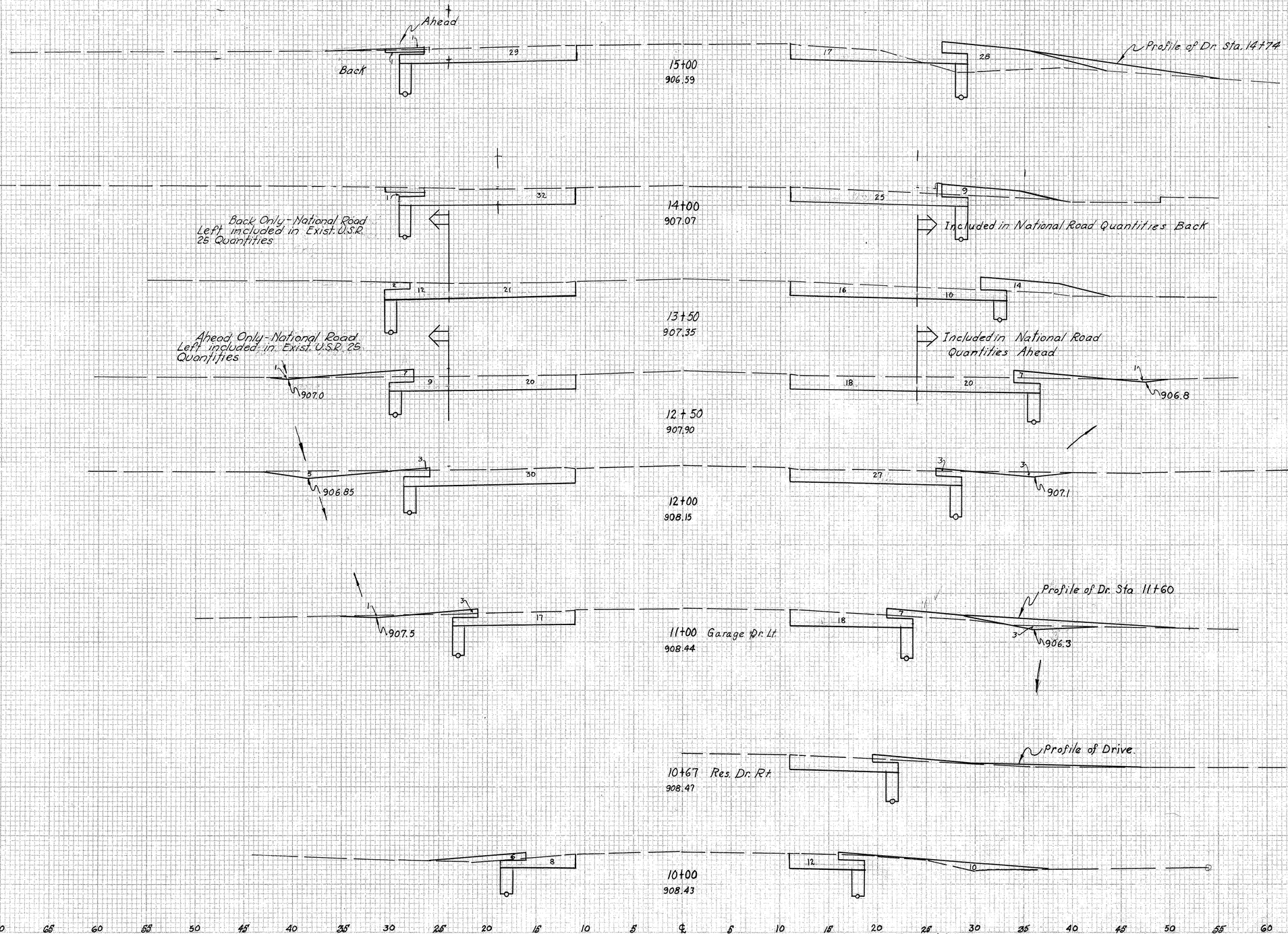
6+64 Dr. Lt (Blacktop)
907.26

6+00
906.65

EXIST U.S.R. 25 AT NATIONAL ROAD X-SECTIONS STA. 6+00 TO STA. 9+79

FED. RD. DIVISION	STATE	PROJECT		309 466
2	OHIO			

AUGLAIZE COUNTY
AUG-25-5.05



	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	46	30		
			191	74
Add for Drive Rt.			1	10
	57	10		
			108	22
Ahead	59	14		
Back	37	0		
Add for Approach Lt.			140	0
			139	0
Ahead	38	0		
Back	69	14		
			124	19
	65	6		
			193	30
Add for Drive Rt.			1	10
	39	10		
			109	48
Add for Drive Rt.			1	4
	20	16		
			65	44
Sta 9+00	15	8		

Excavation	1528 C.Yd.	
Embankment	709 C.Yd.	
Embank. 15%	815 C.Yd.	

EXIST U.S.R. 25 AT NATIONAL ROAD X-SECTIONS STA. 10+00 TO STA. 15+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
AUG-25-5.05

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

19+87 Res. Dr. Lt
907.53

19+00
907.27
904.0
904.2

Sta 18+61.5 END WORK

Profile of Street

FILL
4
5

18+00 Street Lt
906.90
5
7
903.9

17+00
906.37
9
17
11
903.5
11
20
6
902.5

16+00
906.21
20
19
11
902.8
13
34
3
902.0

15+97
906.21
21
25
11
902.8
13
36
3
902.0

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Sta 18+61.5	0	0		
Add for Approach Left			12	11
	10	9		
			85	85
	36	37		
			154	167
	47	53		
			5	6
	48	61		
			169	164
Sta 15+00	46	30		

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

EXIST U.S.R. 25 AT NATIONAL ROAD X-SECTIONS STA. 15+97 TO STA. 19+87

NATIONAL ROAD INTERCHANGE SUMMARY TABLES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
AUG-25-5.05

DRAINAGE TABLE

Plan & Profile Sheet No.	Reference No.	Detail Sheet No.	Ramp No.	E-2 Excavation for Structures Cu.Yd.	E-3 Channel Excavation Cu.Yd.	E-12 Pipe Removed 15" & Under Lin.Ft.	E-12 Pipe Removed Over 15" Lin.Ft.	I-3 Pipe for Roadway Drainage Lin.Ft. 8"	I-3 Pipe Outlet Lin.Ft. 8"	I-5 Pipe Specials for I-3 Pipe Each 6"x36"	I-5 Pipe Specials for S-27 Pipe Each 15"x30"	S-27 Pipe for Rdwy Culv. Sec.M-6.8(a) Lin.Ft. 15"	I-6 Std. No. 1-2A Catch Basin Each	I-10 Sodding Sq.Yd.	S-1 Concrete for Structures Class "E" Cu.Yd.	S-27 Pipe for Roadway Culverts Lin.Ft. 36"	S-27 Pipe for Roadway Culverts Sec.M-6.8 (b) or Sec.M-6.6 (b) Lin.Ft. 15"	S-27 Pipe for Roadway Culverts Sec.M-6.8 (b) or Sec.M-6.6 (b) Lin.Ft. 30"	Remarks
319	1-D		Ramp "C"											100					
319	2-D	360	Ramp "C"	37											1.48		88		
319	3-D		Ramp "C"											100					
319	4-D	323	Ramp "C"	25											1.18	116			
319	5-D		Ramp "D"											515					
319	6-D	323	Ramp "C"	2							2	30	1		0.26		48		
319	7-D		Ramp 'C'											200					
313	1-D		Ramp "A"											300					
316	1-D		Ramp "B"			190								408					
316	2-D		Ramp "B"					88	10	1				195					
316	3-D	359	Ramp "B"	61	12										1.02			114	
Total to Interchange Calculations					12									1818					
Total to U.S. 25 Tables				125	12	190		88	10	1	2	30	1	1818	3.94	116	136	114	

EARTHWORK TABLES

Sheet No.	Ramp No.	Excavation Cu. Yd.	Embankment Cu.Yd.	Embankment + 15% Cu.Yd.	ROADSIDE IMPROVEMENT L-9 Seeding and Protection Sq.Yd.
314	Ramp "A"	1354	8,670	9,971	9,926
318	Ramp "B"	3094	11,564	13,299	10,112
322	Ramp "C"	1121	29,145	33,517	21,439
326	Ramp "D"	1359	12,929	14,868	6,842
Total to Earthwork Calculations		6,928	62,308	71,655	48,319
Total to U.S. 25 Calculations		6,928			48,319

EARTHWORK CALCULATIONS

Embankment +15% = 71,655 Cu.Yd.
Excavation Available to reduce Borrow = 6,928 Cu.Yd.
Total 64,727 Cu.Yd.
Item I-3 Channel Excavation to reduce Borrow 12 Cu.Yd.
Item I-4 Trench Excavation to reduce Borrow 64 Cu.Yd.
Total = 64,651 Cu.Yd.
Total Borrow required for National Road Interchange forwarded To U.S.25 Calculations = 64,651 Cu.Yd.

PAVEMENT QUANTITIES

Sheet No.	Ramp No.	E-1 Compacted Subgrade Sq.Yds.	I-12 Standard Concrete Curb Type 2-A Lin.Ft.	I-18 Stabilized Crushed Aggregate for Shoulders & Approaches Cu.Yd.	I-21 Standard Concrete Median Pavement Type 1 Sq.Yds.	I-21 Std. Concrete Median Pavement Type 1 As Per Plan Sq.Yd.	I-22 Subbase Cu.Yd.	I-23 Std Precast Conc Traffic Dividers Each	B-33 Bituminous Macadam Base Course Sq.Yd.	T-31 Bituminous Surface Treatment, Bituminous Material Gal.	T-31 Bituminous Surface Treatment Aggregate Cu.Yd.	T-71 Reinforced Portland Cement Concrete Pavement Sq.Yds.		Remarks
313								3						
313	Ramp "A"	1989	220	86.0		14.2	623		689.0	172.2	5.5	1989		
316	Ramp "B"	1053	83	89.8			575		718.7	179.7	5.7	1053		
319	Ramp "C"	3014	597	121.0		13	886		962.3	240.6	7.7	3014		
319	Ramp "D"	3077	674	111.0	80	97	953		890.0	222.5	7.1	3077		
Total to U.S. 25 Calculations		9933	1574	407.8	80	124.2	3037	3	3260.0	815.0	26.0	9933		

ITEM E-11 WATER

From Earthwork Table	62,308.0 Cu. Yd.
From Pavement Quantities Item I-18 =	407.8 Cu. Yd.
Item I-22	3031.0 Cu.Yd.
Total =	65,752.8 Cu.Yd.
65,752.8 x 5 ÷ 1000 =	328.8 M. Gal.
Total to U.S. 25 Calculations	328.8 M. Gal.

ITEM-L-9 COMMERCIAL FERTILIZER (10-6-4)

From Roadside Improvement Table	48,319 Sq.Yd.
From Drainage Table-L-10 Sodding	1818 Sq.Yd.
Total =	50,137 Sq.Yd.
50,137 x 9/1000 x 20/2000 =	4.51 Tons
Total to U.S. 25 Calculations	4.51 Tons.

GUARD RAIL TABLE

Sheet No.	Reference No.	STATION From	STATION To	Side	I-15 Guard Rails Steel Beam Type "Deep" Straight Lin.Ft.		Remarks
319	1-G	18+50(C)±	12+03(C)±	Rt.	325.0		
319	2-G	1+00(D)±	4+76(D)±	Rt.	387.5		
Total to U.S. 25 Tables					712.5		

I-4 UNDERDRAIN

Sheet No.	Reference No.	STATION From	STATION To	I-4 6" Pipe Underdrain Lin.Ft.		I-5 Pipe Special for Underdrain Each 6"x90°	I-5 Pipe Special for Underdrain Each 6"x6"Tee	Remarks
319	1-U	15+00 (Nat'l. Rd.)	11+71 (D)	336		1	1	
Total to U.S. 25 Tables				336		1	1	

NATIONAL ROAD INTERCHANGE SUMMARY TABLES

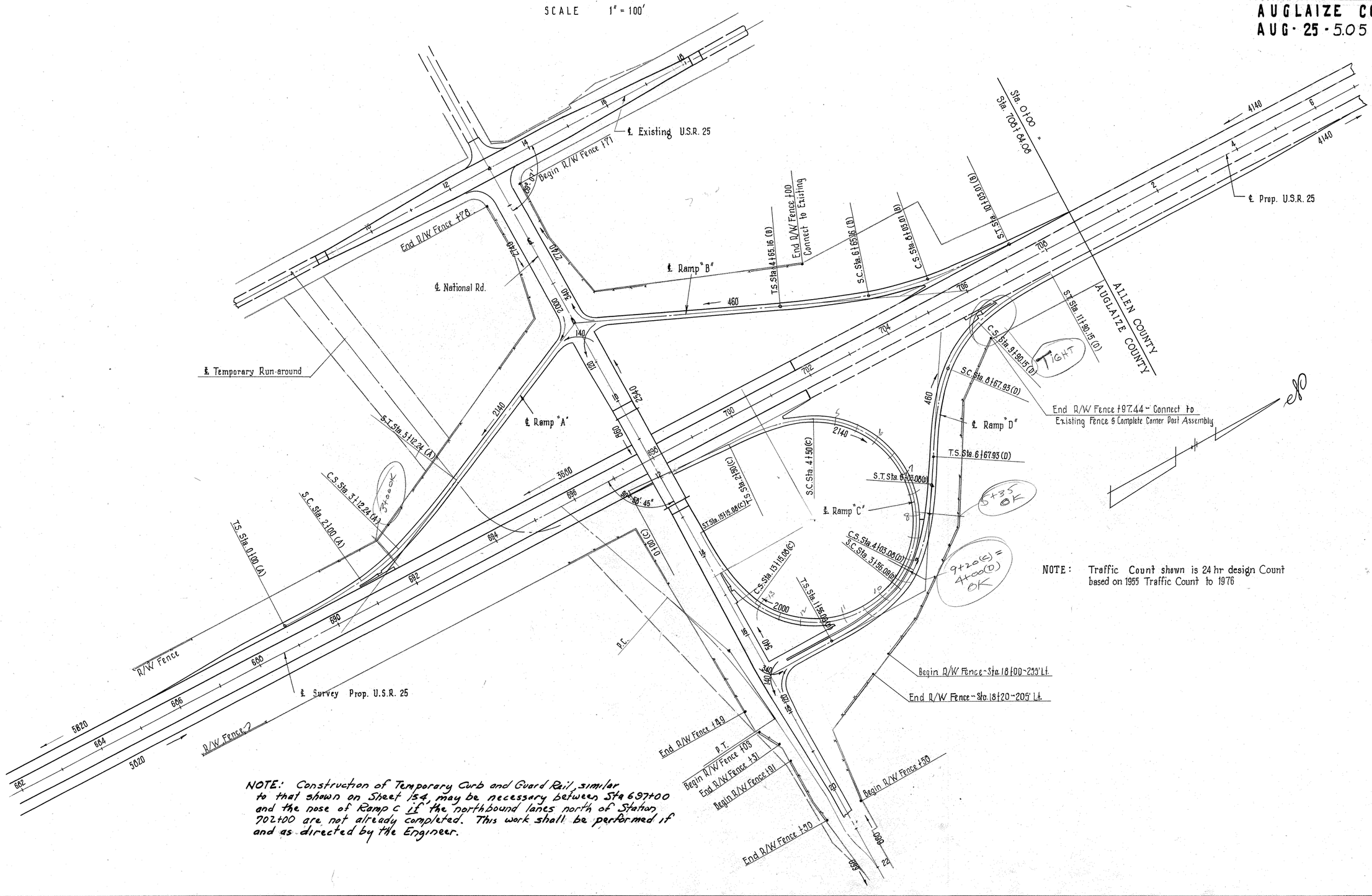
NATIONAL ROAD ℄ PROPOSED U.S.R. 25 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

312
466

AUGLAIZE COUNTY
AUG-25-5.05

SCALE 1" = 100'



NOTE: Traffic Count shown is 24 hr design Count based on 1955 Traffic Count to 1976

NOTE: Construction of Temporary Curb and Guard Rail, similar to that shown on Sheet 154, may be necessary between Sta 697+00 and the nose of Ramp C if the northbound lanes north of Station 702+00 are not already completed. This work shall be performed if and as directed by the Engineer.

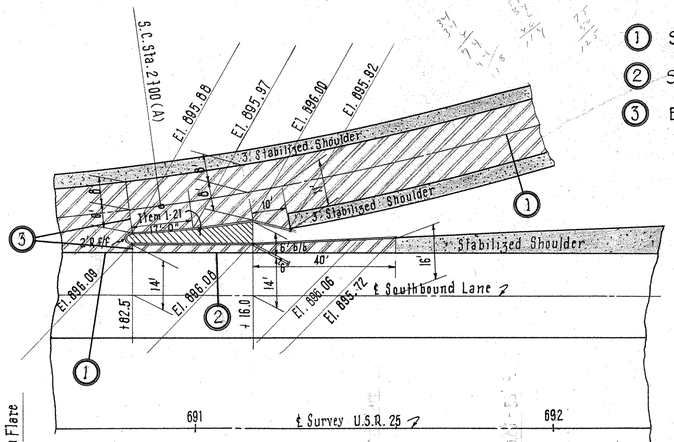
NATIONAL ROAD ℄ PROPOSED U.S.R. 25 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

313
466

AUGLAIZE COUNTY
AUG-25-5.05

1. Standard Longitudinal Joint
2. Standard Key Joint without Tie Bars
3. Expansion Joint without Dowels (Located on radial lines)

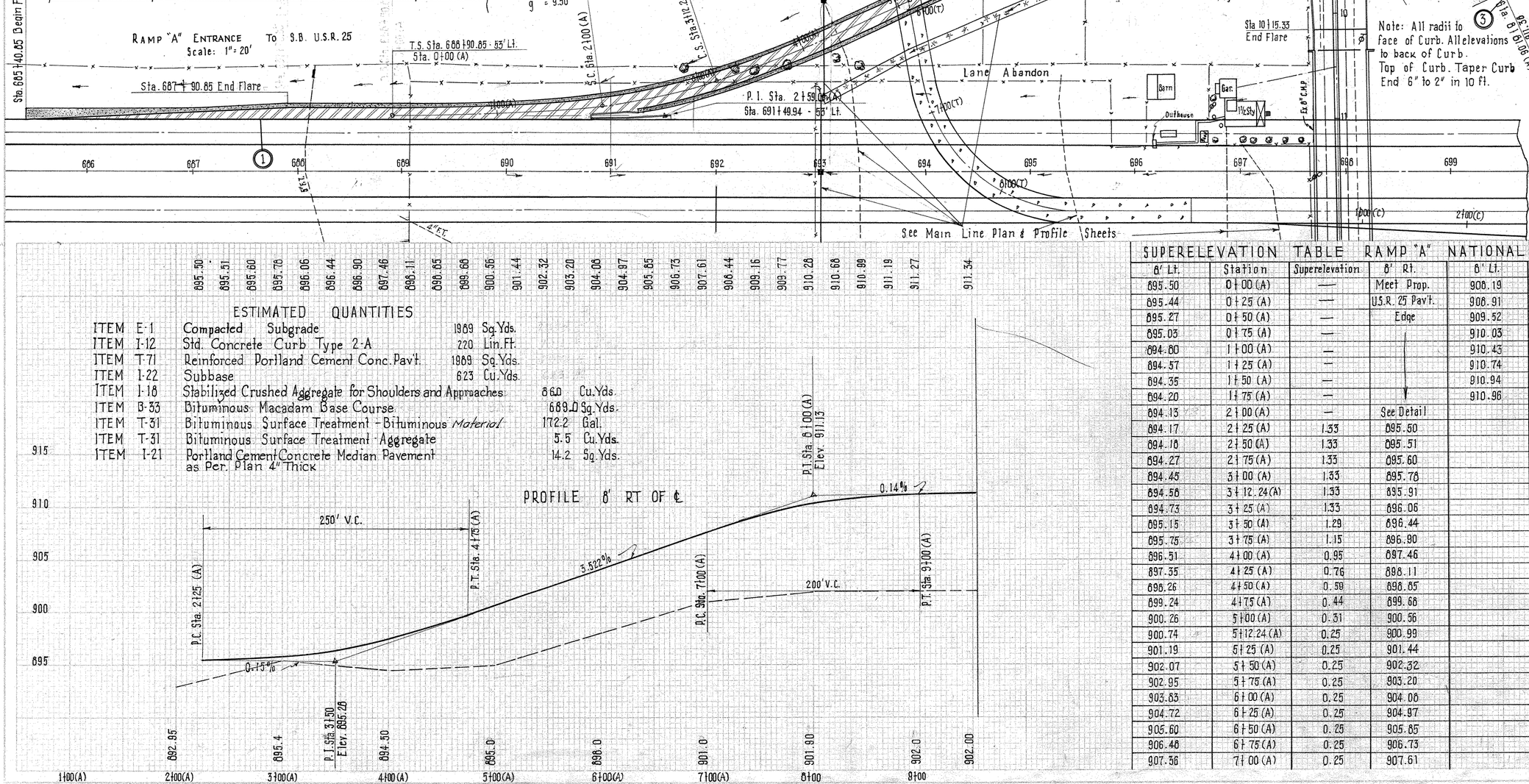


RAMP "A" ENTRANCE To S.B. U.S.R. 25
Scale: 1" = 20'

CURVE DATA

P.I. Sta. 2+59.09 (A)
Δ = 24° - 56' - 45"
D = 8° - 00'
Ls = 200'
Θ_s = 6° - 00'
p = 2.33
k = 99.95
Xc = 199.61
g = 9.30

L.T. = 135.47
S.T. = 66.79
L.C. = 199.83
Δc = 8° - 56' - 45"
Lc = 112.24
Ts = 259.09



Note: All radii to face of Curb. All elevations to back of Curb.
Top of Curb. Taper Curb End 6" to 2" in 10 ft.

DETAIL RAMP "A" ENTRANCE TO NATIONAL RD.
Scale 1" = 20'

ESTIMATED QUANTITIES

ITEM	E-1	Compacted Subgrade	1969 Sq. Yds.
ITEM	I-12	Std. Concrete Curb Type 2-A	220 Lin. Ft.
ITEM	T-71	Reinforced Portland Cement Conc. Pav't.	1969 Sq. Yds.
ITEM	I-22	Subbase	623 Cu. Yds.
ITEM	I-18	Stabilized Crushed Aggregate for Shoulders and Approaches	860 Cu. Yds.
ITEM	B-33	Bituminous Macadam Base Course	689.0 Sq. Yds.
ITEM	T-31	Bituminous Surface Treatment - Bituminous Material	172.2 Gal.
ITEM	T-31	Bituminous Surface Treatment - Aggregate	5.5 Cu. Yds.
ITEM	I-21	Portland Cement Concrete Median Pavement as Per. Plan 4" Thick	14.2 Sq. Yds.

PROFILE 8' RT OF ℄

SUPERELEVATION TABLE RAMP "A" NATIONAL RD. INTERCHANGE

8' Lt.	Station	Superelevation	8' Rt.	8' Lt.	Station	Superelevation	8' Rt.
895.50	0+00 (A)	—	Meet Prop.	908.19	7+25 (A)	0.25	906.44
895.44	0+25 (A)	—	U.S.R. 25 Pav't.	908.91	7+50 (A)	0.25	909.16
895.27	0+50 (A)	—	Edge	909.52	7+75 (A)	0.25	909.77
895.03	0+75 (A)	—	↓	910.03	8+00 (A)	0.25	910.28
894.80	1+00 (A)	—		910.43	8+25 (A)	0.25	910.68
894.57	1+25 (A)	—		910.74	8+50 (A)	0.25	910.99
894.35	1+50 (A)	—		910.94	8+75 (A)	0.25	911.19
894.20	1+75 (A)	—	↓	910.96	8+81.06	0.25	911.21
894.13	2+00 (A)	—	See Detail				
894.17	2+25 (A)	1.33	895.50				
894.18	2+50 (A)	1.33	895.51				
894.27	2+75 (A)	1.33	895.60				
894.45	3+00 (A)	1.33	895.78				
894.56	3+12.24 (A)	1.33	895.91				
894.73	3+25 (A)	1.33	896.06				
895.15	3+50 (A)	1.29	896.44				
895.75	3+75 (A)	1.15	896.90				
896.51	4+00 (A)	0.95	897.46				
897.35	4+25 (A)	0.76	898.11				
898.26	4+50 (A)	0.59	898.85				
899.24	4+75 (A)	0.44	899.68				
900.26	5+00 (A)	0.31	900.56				
900.74	5+12.24 (A)	0.25	900.99				
901.19	5+25 (A)	0.25	901.44				
902.07	5+50 (A)	0.25	902.32				
902.95	5+75 (A)	0.25	903.20				
903.83	6+00 (A)	0.25	904.06				
904.72	6+25 (A)	0.25	904.97				
905.60	6+50 (A)	0.25	905.85				
906.48	6+75 (A)	0.25	906.73				
907.36	7+00 (A)	0.25	907.61				

PLAN & PROFILE RAMP "A" NATIONAL ROAD INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

314
466

AUGLAIZE COUNTY
AUG-25- 5.05

5+00 (A)
895.00

900.26
900.56
893.5
893.5

4+00 (A)
894.50

896.41
896.46
892.5
891.5

3+00 (A)
895.4

894.86
894.45
892.2

Included in U.S.R. 25 Quantities

2+00 (A)
892.95

894.13
891.9

Included in U.S.R. 25 Quantities

Included in U.S.R. 25 Quantities

1+08 (A) Ahead Only
892.95

894.79
891.7

Excavation 1354 Cu.yds
Embankment 8670 Cu.yds
Embankment +15% 9971 Cu.yds

Station	End Area Cut	End Area Fill	Volume Cut	Volume Fill
5+00	22	239		
			122	574
4+00	44	71		
			306	150
3+00	121	10		
			272	61
2+00	26	23		
			75	72
1+08	18	19		

X-SECTIONS PROPOSED U.S.R. 25 & NATIONAL ROAD INTERCHANGE RAMP "A" STA. 1+08 TO STA. 5+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

315
466

AUGLAIZE COUNTY
AUG - 25 - 5.05

Included in National Road Quantities

Included in National Road Quantities

Note: Between Sta. 8+92 (A) & Sta. 9+28 Use 20' for distance to get Earthwork

	End Area		Volume	
	Cut	Fill	Cut	Fill
0		1191		
5		1547		
8		1130		
	52	2744		
	22	481		
	191	1454		
	81	304		
	220	1094		
	38	287		
	111	974		
Sta 5+00	22	239		

9+28 Back Only
901.3

8+92 (A)
902.00

8+00 (A)
901.90

7+00 (A)
901.00

6+00 (A)
896.00

7+15 (A)

7+15 (A)

X-SECTIONS PROPOSED U.S.R. 25 & NATIONAL ROAD INTERCHANGE RAMP "A" STA. 6+00 TO STA. 9+28

FED. RD. DIVISION	STATE	PROJECT		316 466
2	OHIO			

AUGLAIZE COUNTY
AUG-25-5.05

ESTIMATED QUANTITIES

ITEM E-1	Compacted Subgrade	1853	Sq. Yds.
ITEM T-71	Reinforced Portland Cement Concrete Pavt	1853	Sq. Yds.
ITEM I-22	Subbase	575	Cu. Yds.
ITEM I-12	Standard Conc. Curb, Type 2A	83	Lin. Ft.
ITEM I-18	Stabilized Crushed Aggregate for Shoulders & Approaches	89.8	Cu. Yds.
ITEM B-33	Bituminous Macadam Base Course	718.7	Sq. Yds.
ITEM T-31	Bituminous Surface Treatment - Bituminous Material	179.7	Gal
ITEM T-31	Bituminous Surface Treatment - Aggregate	5.7	Cu. Yds.

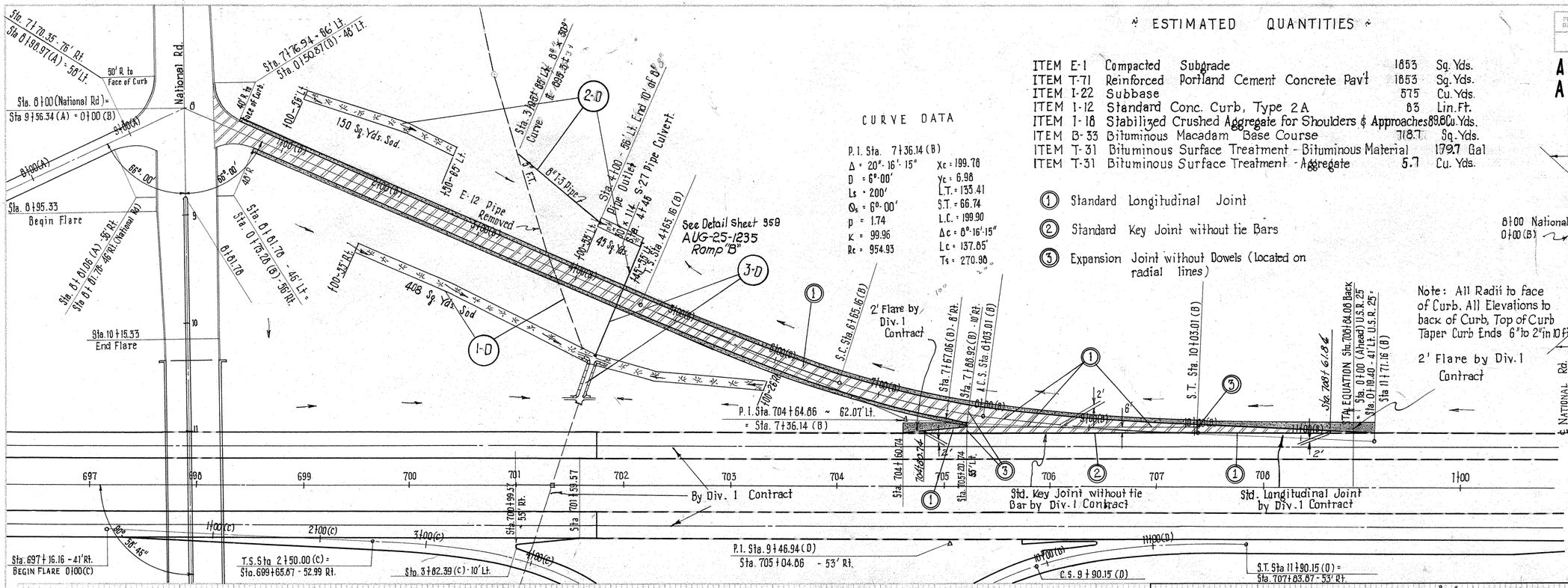
① Standard Longitudinal Joint

② Standard Key Joint without tie Bars

③ Expansion Joint without Dowels (located on radial lines)

Note: All Radii to face of Curb. All Elevations to back of Curb, Top of Curb Taper Curb Ends 6" to 2" in 10 ft.

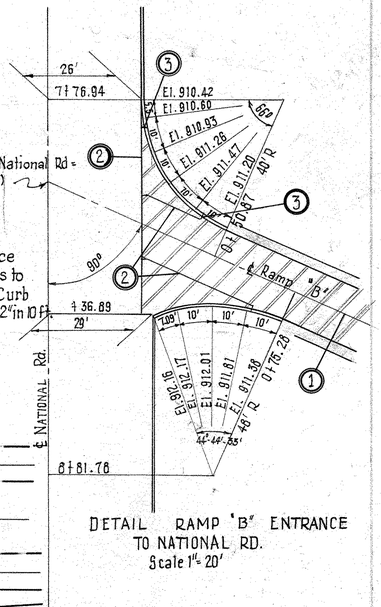
2' Flare by Div. 1 Contract



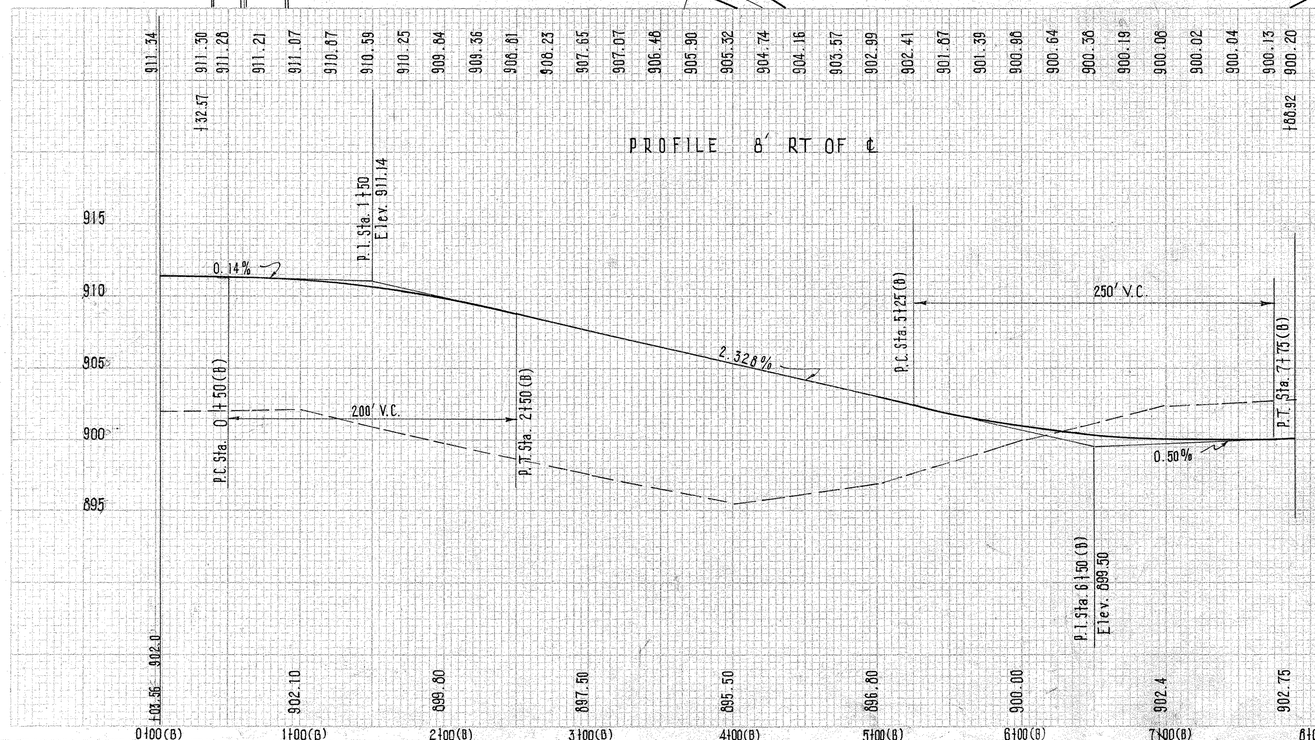
CURVE DATA

P.I. Sta. 7+36.14 (B)

Δ = 20°-16'-15"		Xc = 199.78	
D = 6°-00'		Yc = 6.98	
Ls = 200'		L.T. = 133.41	
Θ_s = 6°-00'		S.T. = 66.74	
p = 1.74		L.C. = 199.90	
K = 99.96		Δc = 8°-16'-15"	
Rc = 954.93		Lc = 137.65'	
		Ts = 270.90	



DETAIL RAMP "B" ENTRANCE TO NATIONAL RD.
Scale 1" = 20'



SUPERELEVATION TABLE RAMP "B" NATIONAL RD. INTERCHANGE

Elev. 8' Lt.	Station	Superelevation	Elev. 8' Rt.	Elev. 8' Lt.	Station	Superelevation	Elev. 8' Rt.
See Detail	0+03.56 (B)	—	See Detail	898.69	7+25 (B)	1.33	900.02
"	0+32.57 (B)	—	"	898.71	7+50 (B)	1.33	900.04
"	0+50 (B)	—	"	898.80	7+75 (B)	1.33	900.13
910.96	0+75 (B)	0.25	911.21	898.87	7+80.92 (B)	1.33	900.20
910.62	1+00 (B)	0.25	911.07	898.93	8+00 (B)	—	Meet Prop.
910.62	1+25 (B)	0.25	910.87	898.95	8+03.01(B)	—	U.S.R. 25
910.34	1+50 (B)	0.25	910.59	898.13	8+25 (B)	—	Pavt. Edge
910.00	1+75 (B)	0.25	910.25	899.36	8+50 (B)	—	
909.59	2+00 (B)	0.25	909.84	899.62	8+75 (B)	—	
909.11	2+25 (B)	0.25	909.36	899.86	9+00 (B)	—	
906.56	2+50 (B)	0.25	906.81	900.14	9+25 (B)	—	
907.98	2+75 (B)	0.25	908.23	900.40	9+50 (B)	—	
907.40	3+00 (B)	0.25	907.65	900.60	9+75 (B)	—	
906.62	3+25 (B)	0.25	907.07	900.71	10+00 (B)	—	
906.23	3+50 (B)	0.25	906.48	900.72	10+03.01 (B)	—	
905.65	3+75 (B)	0.25	905.90				
905.07	4+00 (B)	0.25	905.32				
904.49	4+25 (B)	0.25	904.74				
903.91	4+50 (B)	0.25	904.16				
903.53	4+65.16 (B)	0.26	903.81				
903.26	4+75 (B)	0.31	903.57				
902.54	5+00 (B)	0.45	902.99				
901.79	5+25 (B)	0.62	902.41				
901.03	5+50 (B)	0.84	901.67				
900.35	5+75 (B)	1.04	901.39				
899.79	6+00 (B)	1.19	900.98				
899.37	6+25 (B)	1.27	900.64				
899.07	6+50 (B)	1.31	900.36				
898.93	6+65.16 (B)	1.33	900.26				
898.86	6+75 (B)	1.33	900.19				
898.75	7+00 (B)	1.33	900.06				

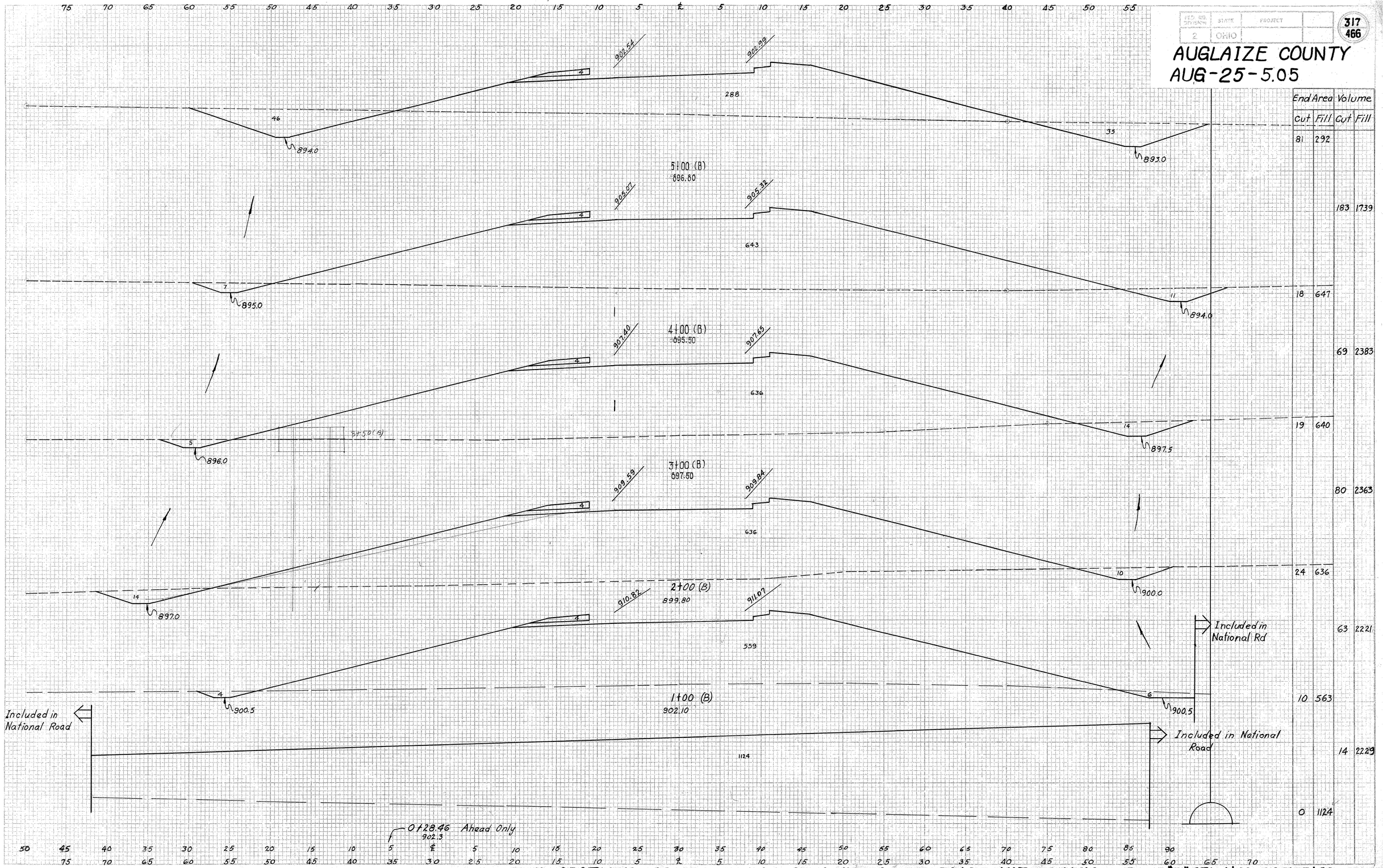
PLAN & PROFILE RAMP "B" NATIONAL ROAD INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

317
466

AUGLAIZE COUNTY
AUG-25-5.05

	End Area		Volume	
	Cut	Fill	Cut	Fill
5+00 (B) 896.80	81	292		
			183	1739
4+00 (B) 895.50	18	647		
			69	2383
3+00 (B) 897.50	19	640		
			80	2363
2+00 (B) 899.80	24	636		
			63	2221
1+00 (B) 902.10	10	563		
			14	2229
	0	1124		

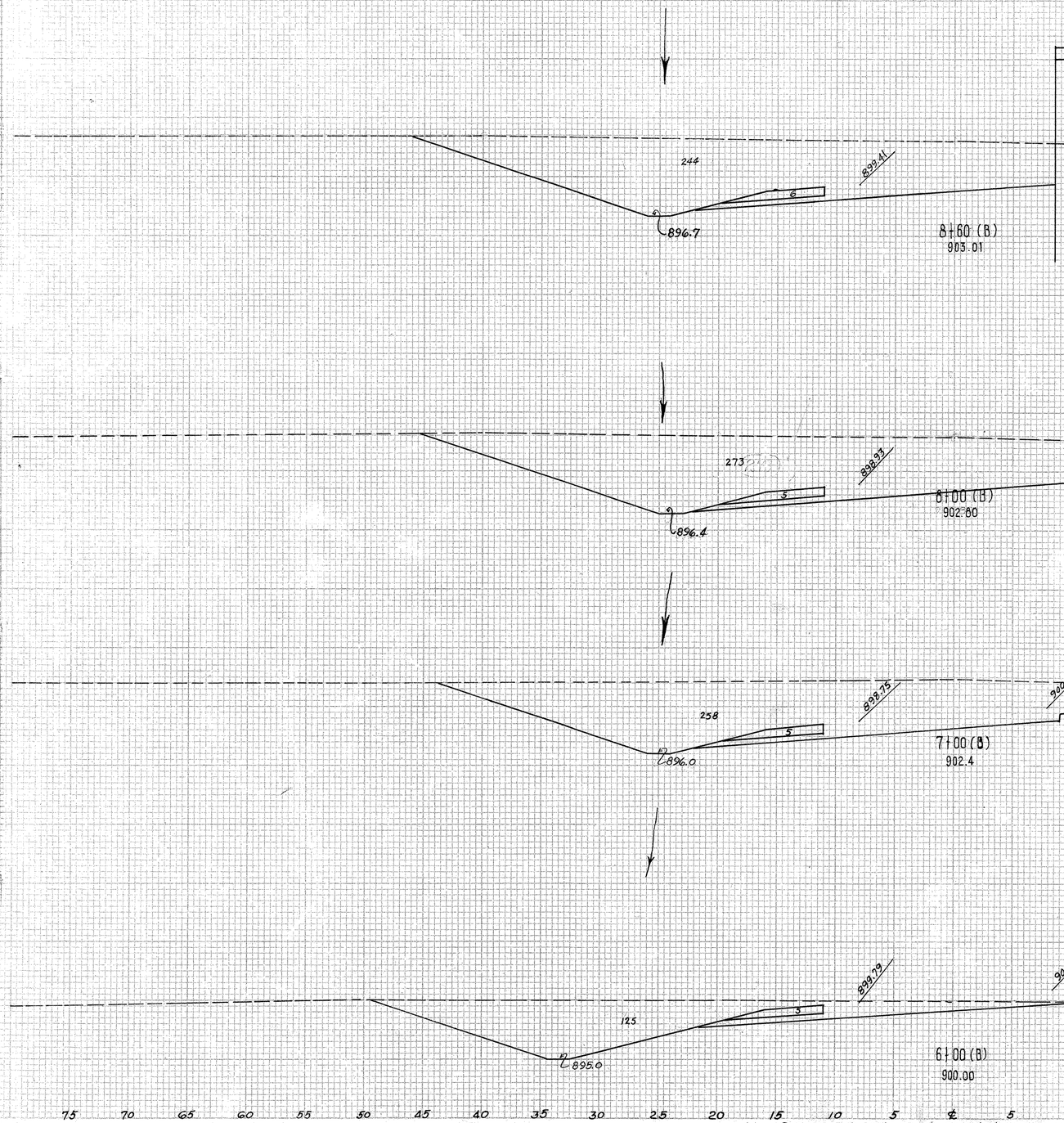


X-SECTIONS PROPOSED U.S.R. 25 & NATIONAL ROAD INTERCHANGE RAMP "B" STA. 1+00 TO STA. 5+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

318
466

AUGLAIZE COUNTY
AUG-25-5.05



Sta.	End Area Cut	End Area Fill	Volume Cut	Volume Fill
244	6			
			574	12
273	5			
			983	19
258	5			
			728	33
135	13			
			400	565
Sta. 5+00	81	292		

Excavation 3094 Cu.yds 11,364 Cu.yds
Embankment 13,299 Cu.yds
Embankment + 15% 15,294 Cu.yds

X-SECTIONS PROPOSED U.S.R. 25 & NATIONAL ROAD INTERCHANGE RAMP "B" STA 6+00 TO STA 8+60

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

319
466

AUGLAIZE COUNTY
AUG-25-5.05

Sta. 697+93.33 = Sta. 11+50

Sta. 10+15.33
End Flare
20'

90°-58'-45"

T.S. Sta. 4+65.16 (B)

Exist. 30"x 164' Pipe Culv.

S.C. Sta. 6+65.16 (B)

P.I. Sta. 704+64.86 - 62.07' Lt.
= Sta. 7+36.14 (B)

Sta. 7+67.06 (B) - 8' Rt.

Sta. 7+60.92 (B) 0' Rt.
C.S. Sta. 8+03.01 (B)

S.T. Sta. 10+03.01 (B)

STA. EQUATION Sta. 708+64.06 Back
= Sta. 0+00 (Ahead) U.S.R. 25
Sta. 01+19.40 -41' Lt. U.S.R. 25 =
Sta. 11+71.16 (B)

696 697 698 699 700 701 702 703 704 705 706 707 708 1+00 2+00 3+00

No. 1

Match Line

See Prop. U.S.R. 25 Quantities

By Div. 1 Contract

Sta. 704+60.74

Sta. 705+20.74
55' Lt.

Std. Key Joint without Tie Bars by Div. 1 Contract

Std. Longitudinal Joint by Div. 1 Contract

Sta. 700+99.57
55' Rt.

Sta. 701+39.57

Sta. 701+59.57

P.I. Sta. 9+46.94 (D)
Sta. 705+04.86 - 53' Rt.

Sta. 697+16.16 - 41' Rt.

Sta. 697+57.83

+96.83 - 1.5 Lt.
+08.83 - 1.0 Lt.
+20.83 - 0.5 Lt.
+32.83 - ℄
+44.83 - 0.5 Rt.

T.S. Sta. 2+50.00 (C) =
Sta. 699+65.87 - 52.99 Rt.

S.T. Sta. 15+15.08 (C) =
Sta. 13+48.92 National Rd. - 19' Lt.

13+00 - 60' Rt.

Sta. 3+02.39 (C) - 10' Lt.
Sta. 3+02.39 (C) - 40' Rt.

S.C. Sta. 4+35.00 (C)

See Detail Sheet No. 360
AUG-25-1236
Ramp "C"

S.C. Sta. 8+67.93 (D)

S.T. Sta. 11+90.15 (D) =
Sta. 707+83.87 - 53' Rt.

Sta. 9+90.15 (D)

CURVE DATA RAMP(D)

Δ = 58°-00'	K = 99.67
D = 18°	Xc = 196.04
L = 200'	yc = 20.80
R = 318.31	Δc = 22°-00'
Ts = 279.01	Lc = 122.22
Es = 516'	
Os = 18°-00'	
p = 5.22	

Sta. 700+53.79 - 293.89' Prop. U.S.R. 25
Sta. 14+48.29 - 255.40 Lt. National Rd.

CURVE DATA (RAMP(C)

Δ = 266°-16'-15"	p = 7.22'
D = 25°-00'	k = 99.37
Ls = 200'	Xc = 196.23
R = 229.18	yc = 28.70
Os = 25°-00'	Δc = 216°-16'-15"
Rc = 229.18	Lc = 865.06

Begin Flare 14+73.15
10'

Sta. 15+00 National Rd. - 14' Lt.
Begin I-4 Fl. 905.0

I-22 Traffic Divider 12'c/c

End Flare Sta. 16+53.15

Sta. 16+74.15 National Rd. - 14' Lt.
6"x 30" for I-4 Fl. 899.5

Sta. 17+03.15 National Rd. =
0+00 (D)

Begin Flare Sta. 17+53.15

Sta. 0+46 (D)

Sta. 1+83.06 (D)
27' Lt.

Sta. 0+64 (D) - 35' Rt.

Sta. 17+61.15 - 64' Lt.

Sta. 1+00 (D)

Sta. 1+26.17 6' Lt.

Sta. 3+93.96 (D)

Sta. 4+09.79
Begin Flare

Sta. 6+18.12

Sta. 6+39.79
End Flare

Sta. 6+67.93 (D)

Sta. 8+01.15 (C) - 6' Lt.

Sta. 5+98.98 (D) - 8' Lt.

Sta. 9+62.75 (D) - 15' Lt.

Sta. 11+26.17 6' Lt.

Sta. 13+15.08 (C)

Sta. 13+00 - 55' Rt.

Sta. 13+00 - 60' Rt.

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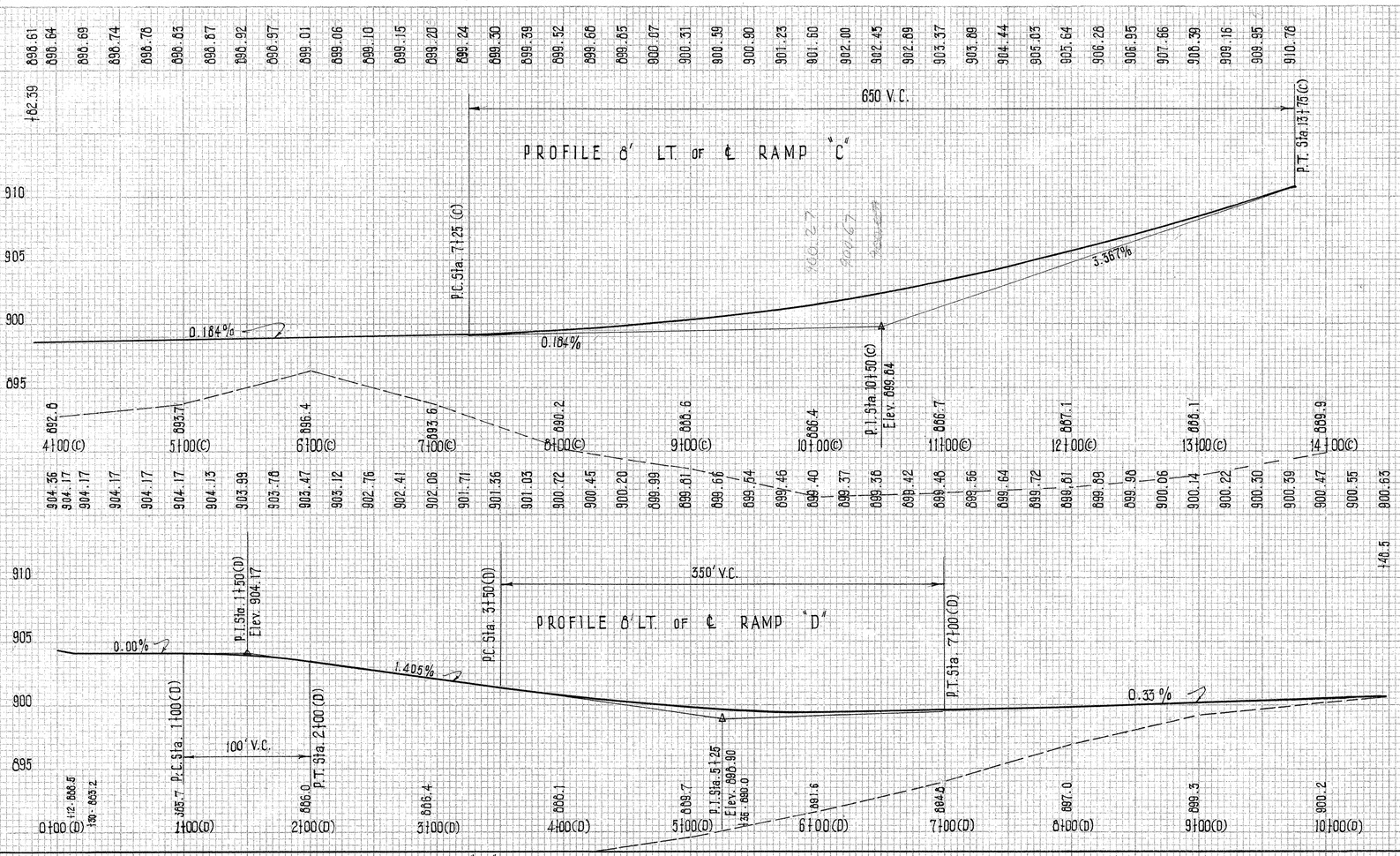
FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

320
466

AUGLAIZE COUNTY
AUG-25-5.05



SUPERELEVATION RAMP "C"

8' Lt.	Station	Superelevation	8' Rt.
Meet Prop.	2+50 (C)	—	898.02
U.S.R. 25 Pavt	2+75 (C)	—	898.02
Edge	3+00 (C)	—	897.96
	3+25 (C)	—	897.85
	3+50 (C)	—	897.73
	3+75 (C)	—	897.60
898.64	4+00 (C)	1.14	897.50
898.69	4+25 (C)	1.27	897.42
898.74	4+50 (C)	1.33	897.41
898.76	4+75 (C)	1	897.45
898.83	5+00 (C)		897.50
898.87	5+25 (C)		897.54
898.92	5+50 (C)		897.59
898.97	5+75 (C)		897.64
899.01	6+00 (C)		897.68
899.06	6+25 (C)		897.73
899.10	6+50 (C)		897.77
899.15	6+75 (C)		897.82
899.20	7+00 (C)		897.87
899.24	7+25 (C)		897.91
899.30	7+50 (C)		897.97
899.39	7+75 (C)		898.06
899.52	8+00 (C)		898.19
899.66	8+25 (C)		898.35
899.85	8+50 (C)		898.52
900.07	8+75 (C)		898.74
900.31	9+00 (C)		898.96
900.59	9+25 (C)		899.26
900.90	9+50 (C)		899.57
901.23	9+75 (C)		899.90
901.60	10+00 (C)		900.27
902.00	10+25 (C)		900.67
902.43	10+50 (C)		901.10
902.89	10+75 (C)		901.56
903.37	11+00 (C)		902.04
903.89	11+25 (C)		902.56
904.44	11+50 (C)		903.11
905.03	11+75 (C)		904.70
905.64	12+00 (C)		904.31
906.28	12+25 (C)		904.95
906.95	12+50 (C)		905.62
907.66	12+75 (C)		906.33
908.39	13+00 (C)	1.33	907.06
908.85	13+15.08 (C)	1.29	907.56
909.16	13+25 (C)	1.27	907.89
909.95	13+50 (C)	1.16	908.77
910.76	13+75 (C)	1.05	909.73
Meet Prop	14+00 (C)	—	910.69
National Rd	14+25 (C)	—	911.65
Pavt Edge	14+50 (C)	—	912.62
	14+75 (C)	—	913.52
	15+00 (C)	—	914.33
	15+15.06 (C)	—	914.68

SUPERELEVATION TABLES RAMP "D" NATIONAL ROAD INTERCHANGE

Elev 27' Lt.	Elev 11' Lt.	Elev. 8' Lt.	Station	Superelevation	8' Rt.	Elev. 8' Lt.	Station	Superelevation	Elev. 8' Rt.	E 8' Lt.	Station	Superelevation	Elev. 8' Rt.
See Detail	See Detail	904.17	0+12 (D)	—	See detail	899.99	4+75 (D)	1.13	901.12	900.38	9+75 (D)	1.33	899.06
		904.17	0+25 (D)	—		899.81	5+00 (D)	0.99	900.80	900.44	C.S. 9+90.15 (D)	1.33	899.11
		904.17	0+50 (D)	—		899.66	5+25 (D)	0.83	900.49	900.47	10+00 (D)	1.31	899.16
		904.17	0+64 (D)	—		899.54	5+50 (D)	0.64	900.18	900.55	10+25 (D)	1.22	899.33
903.92	904.17	904.17	0+75 (D)	0.25	903.92	899.46	5+75 (D)	0.44	899.90	Meet Prop. U.S.R.	10+50 (D)	—	899.55
903.92	904.17	904.17	1+00 (D)	0.25	903.92	899.40	6+00 (D)	0.27	899.67	25 Pavt Edge	10+75 (D)	—	899.60
903.92	904.13	904.13	1+25 (D)	0.21	903.92	899.38	S.T. 6+03.06 (D)	0.25	899.64		11+00 (D)	—	900.04
903.84	904.08	903.99	1+50 (D)	0.07	903.92	899.37	6+25 (D)	0.11	899.48		11+25 (D)	—	900.29
903.96	904.07	903.94	T.S. 1+56.09 (D)	0.03	903.91	899.36	6+50 (D)	0.10	899.28		11+50 (D)	—	900.53
904.03	904.03	903.76	1+75 (D)	0.11	903.89	899.40	T.S. 6+67.93 (D)	0.24	899.16		11+75 (D)	—	900.66
Meet Ramp "C"	903.63	903.47	2+00 (D)	0.33	903.80	899.42	6+75 (D)	0.31	899.11		S.T. 11+90.15 (D)	—	900.71
8' Lt. Edge	903.17	903.12	2+25 (D)	0.52	903.64	899.48	7+00 (D)	0.51	899.97				
—	902.71	902.76	2+50 (D)	0.72	903.48	899.56	7+25 (D)	0.69	899.87				
—	902.25	902.41	2+75 (D)	0.90	903.31	899.64	7+50 (D)	0.82	899.82				
—	901.64	902.06	3+00 (D)	1.09	903.15	899.72	7+75 (D)	0.96	899.76				
—	901.48	901.71	3+25 (D)	1.23	902.94	899.81	8+00 (D)	1.11	899.70				
—	901.15	901.36	3+50 (D)	1.32	902.68	899.89	8+25 (D)	1.24	899.65				
—	901.07	901.27	S.C. 3+56.09 (D)	1.33	902.60	899.98	8+50 (D)	1.32	899.66				
—	Meet Ramp "C"	901.03	3+75 (D)	1.33	902.36	900.04	8+67.93 (D)	1.33	899.70				
—	8' Lt. Edge	900.72	4+00 (D)	1.33	902.05	900.08	8+75 (D)	1.33	899.75				
—	—	900.69	C.S. 4+03.06 (D)	1.33	902.02	900.14	9+00 (D)	1.33	899.81				
—	—	900.45	4+25 (D)	1.30	901.75	900.22	9+25 (D)	1.33	899.89				
—	—	900.20	4+50 (D)	1.23	901.43	900.30	9+50 (D)	1.33	899.97				

NATIONAL ROAD INTERCHANGE PROFILES RAMP "C" & "D"

FED. RD. DIVISION	STATE	PROJECT		321 466
2	OHIO			

AUGLAIZE COUNTY
AUG-25-5.05

Included in Prop U.S.R. 25 Quantities

898.64

7

℄ 897.50 Prof

5

224

℄ Prop 30" S-27 Pipe Culvert Sta. 3+97.0 .71 %

For Culvert Detail & Quantities See Sheet № 349

4+00 (C)
892.5

8" 12" Fill 1.4 Cut

FAP

3.6

890.0

RW

Included in Prop U.S.R. 25 Quantities

897.96

5

19

16

894.0

3+00 (C)
896.3

Included in Prop U.S.R. 25 Quantities

898.00

5

45

894.4

2+85 (C) Ahead Only
897.2

	End Area		Volume	
	Cut	Fill	Cut	Fill
		6		236
			41	481
		16		24
			17	8
		45		5

X-SECTIONS PROPOSED U.S.R. 25 & NATIONAL ROAD RAMP "C" STA. 2+85 TO STA. 4+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

322
466

AUGLAIZE COUNTY
AUG-25-5.05

Included in Ramp "D"
Back

Included in Ramp "D"

8+00 (℄)
890.3

7+00 (℄)
893.5

6+00 (℄)
895.0

5+00 (℄)
893.4

Sta. 4+00

	End Area Volume			
	Cut	Fill	cut	Fill
Ahead	24	776		
Back	14	320		
			113	998
			47	219
			298	615
			114	113
			280	544
			37	181
			80	772
			6	236

Excavation 1121 Cu.yds
Embankment 29,965 Cu.yds
Embankment +15% 33,517 Cu.yds

X-SECTIONS PROPOSED U.S.R. 25 & NATIONAL ROAD INTERCHANGE RAMP "C" STA. 5+00 TO STA. 8+00

FED. NO. DIVISION	STATE	PROJECT		
2	OHIO			

323
466

AUGLAIZE COUNTY
AUG-25-5.05

Included in Ramp "D"

℄ 902.5

1-2-A C.B.
℄ 899.0

902.64

904.31

15" S-27 Pipe 0.5%

48'

F/L 898.7 - I-5 Pipe Special 30"x15"

Cl. "E" Conc. Collar
1334 See Sht. 352 for detail
& basis of payment.

CULVERT DATA

TYPE 15" Pipe P.C. 3&4
SIZE 15" x 86'
WORK REQUIRED - Construct 15"x86' S-27 Pipe Culvert as shown with Std 1-2A C.B. On Lt. and Std. Concrete endwall on Rt. Install two 30"x15" Pipe Specials as indicated

18'

2:1

0.7%

Std. Endwall

887.5

12

F/L 887.6 - I-5 Pipe Special 30"x15"

ESTIMATED QUANTITIES

			End Area Volume			
			Cut	Fill	Cut	Fill
ITEM E-2	Excavation for Structure	2 Cu. Yds				
ITEM I-5	30"x15" Pipe special for Rdway Culv, M-6.4(d)2	2 Each				
ITEM I-8	1-2-A Catch Basin	1 Each				
ITEM S-1	Concrete for Structure Class "E"	.26 Cu. Yds				
ITEM S-27	15" Pipe for Roadway Culvert Sec. M-6.8(b) or Sec. M-6.6 (b)	48 Lin Ft.				
	Item S-27, 15" Pipe for Rdwy Culv., Sec. M-6.4(d)	30 Lin Ft.	3	1340		

12+00 (℄)
887.0

Included in Ramp "D" Ahead

902.04

1056

480

2:1

12

887.0

13 4437

Ahead 4 1056
Back 16 1542

903.00

901.80

901.56

901.60

11+00 (℄)
887.0

900.27

1263

6:1

2:1

70 5206

30' of 36"

22 1269

10

885.8

72'

116'

44'

10+00 (℄)
886.5

886.0

CULVERT DATA

TYPE - 36" Pipe P.C. 3&4
SIZE - 36"x116'
WORK REQUIRED - Construct 36"x116' S-27 Pipe Culvert 90° to ℄ of Survey at Sta 10+00 with Std. Concrete Headwalls on Lt. & Rt.

Prop 36" S-27 Pipe 0.6% Grade

901.82

900.51

900.31

898.98

853

2:1

2:1

ESTIMATED QUANTITIES

ITEM E-2	Excavation for Structure	25 Cu. Yds	76	3941
ITEM S-1	Concrete for Structure Class "E"	1.18 Cu. Yds.		
ITEM S-27	36" Pipe for Roadway Culverts	116 Lin Ft		

10

888.0

9+00 (℄)
888.4

9

886.5

19 859 74 3022

Ahead 21 773
Sta 8+00
Back 14 320

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

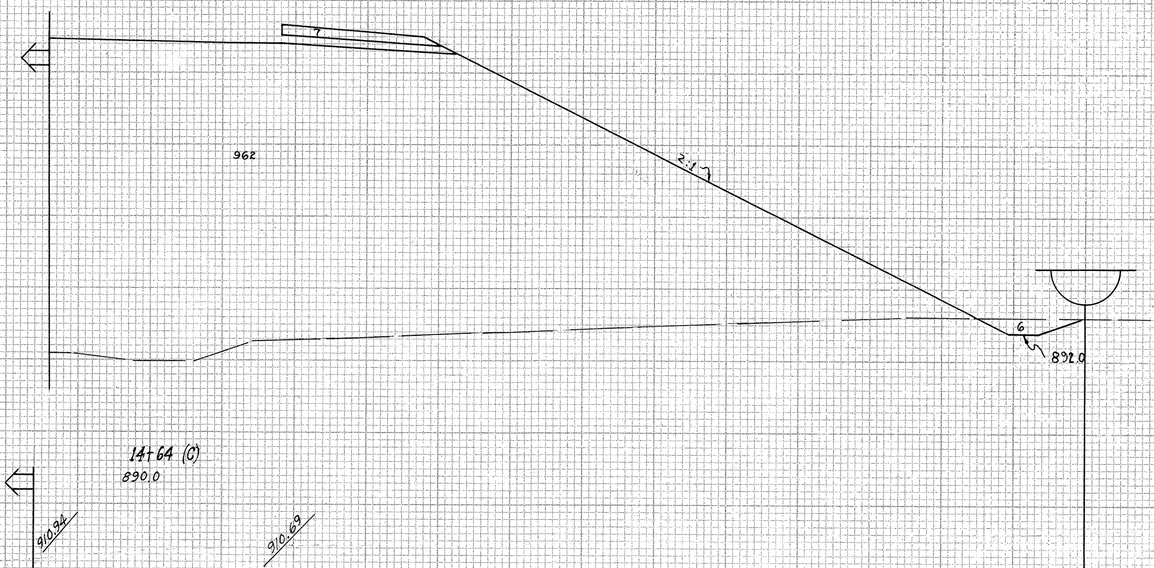
X-SECTIONS PROPOSED U.S.R. 25 & NATIONAL ROAD INTERCHANGE RAMP "C" STA. 9+00 TO STA. 12+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

324
466

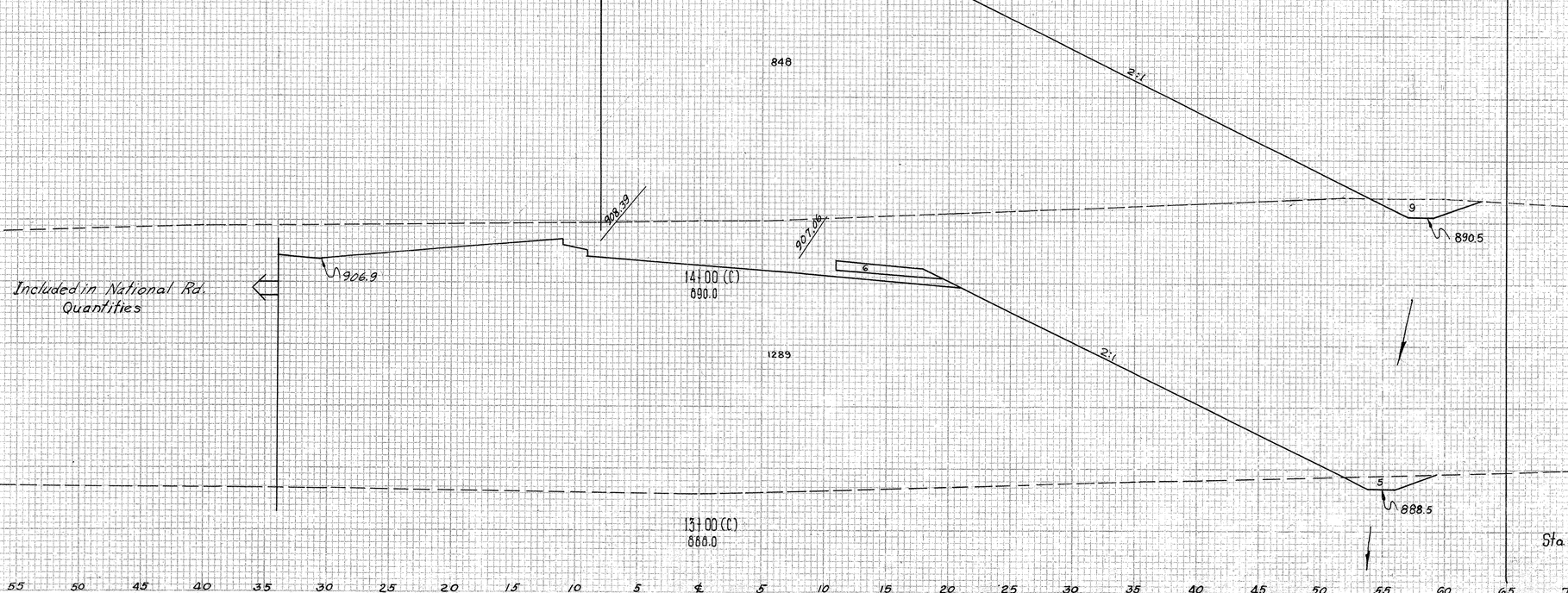
AUGLAIZE COUNTY
AUG-25-5.05

Included in National Rd. Quantities



Included in National Rd. Quantities

Included in National Rd. Quantities



	End Area		Volume	
	Cut	Fill	Cut	Fill

FED. AID DIVISION	STATE	PROJECT	
2	OHIO		

325
466

AUGLAIZE COUNTY
AUG - 25 - 5.05

	End Area		Volume	
	Cut	Fill	Cut	Fill
0+12				
		1693		0 1693
0+30 (D)				
		884.0		
		1256		0 1256
		2073		0 2073
1+00 (D)				
		886.0		
		4255		0 4255
		1209		0 1209
2+05 (D)				
Back Only				
		886.0		
		1204		0 4401
		1054		0 1054

Included in Ramp "A"

Included in Ramp "A"

Included in National Rd. Quantities

Included in National Rd. Quantities

See Channel Sections Sheet No. 362

See Channel Sections Sheet No. 362

903.92 904.17 904.17 903.92 903.92

2:1 2:1

5

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

X-SECTIONS PROPOSED U.S.R. 25 & NATIONAL ROAD INTERCHANGE RAMP "D" STA. 0+12 TO STA. 2+05

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

326
466

AUGLAIZE COUNTY
AUG - 25 - 5.05

Included in Prop. U.S.R. 25 Quantities

11+04 (D) Back Only
899.0

10+00 (D)
900.2

9+00 (D)
899.3

6+00 (D)
897.0

7+00 (D)
894.0

Included in Ramp "C"

6+00 (D)
891.6

Included in Ramp "C"

5+35 (D) Ahead Only
890.0

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	40	43		
			348	98
	141	8		
			496	37
	127	12		
			324	139
	48	63		
			128	546
	21	232		
			50	1187
	6	409		
			13	1010
	5	430		

Excavation	1359 Cu.yds.
Embankment	12,929 Cu.yds.
Embank. +15%	14,868 Cu.yds.

X-SECTIONS PROPOSED U.S.R. 25 & NATIONAL ROAD INTERCHANGE RAMP "D" STA. 5+35 TO STA. 11+04

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

326-A
466

AUGLAIZE COUNTY
AUG-25-5.05

501

1½ Sty. Block
1½ Sty. Frame
1 Sty. Fr.
1 Sty. Rest.
Chicken House
Brooder House
Brooder House
Barn
Gas Meter
G. Meter
R. Meter
Iron Pipe
Cap. Nail
Temp. National Road
S.W. Cor. Rest.
Cap Nail
Sta 0+00 (LT)
Sta 81+00 Exist. U.S.25
Sta 0+00 Exist. U.S.R. 25
Sta 81+00 (T)
Sta 0+61.97(T) - 52' Lt. -
Sta. 81+61.97 - 52' Rt.
Sta 0+62.03(T) - 62' Rt.
Sta 7+47.97 - 62' Rt.
Exist. U.S.R. 25
Sta. 696+54.71 End Temporary Pav't.
Sta. 9+97.81 (T) = Sta. 695+66.97
Sta 6+77.57(T) = P.T. Sta. 695+45.55 - 37' Rt.
150' R.
P.C. Sta. 6+68.33 (T)
Sta 697+93.33 Prop. U.S.25 = Sta. 11+50 National Road
S.T. Sta. 15+15.00(C)
Hub in Fence
Cap Nail 12" Walnut
Tangent
Tangent
Cap Nail 20" Ash
P.I. Sta. 14+91.54 (T)
C.S.
National Road
8" C.M.P.
8" F.T.
4" F.T.
5" F.T.
6" F.T.
Barn
Garage
Light Pole
Gate
Gate
Gate
Turnhouse
Prop. U.S.R. 25
P.I. Sta. 14+91.54 (T) = Sta. 16+10 - 57' Rt.
4' Berms
4' Berms
20'
40' R.
10'
10'
Conc. Metal Arch 13' span
4" Slope drive
WORK
END
P.C. Sta. 12+90.50 (T)
P.T. Sta. 16+82.28 (T)
P.I. Sta. 694+19.85 = 37' Rt. = Sta. 7+94.03 (T)
Sta. 694+13.28 = Sta. 7+56.45 (T)

Temporary Runaround Road using Class "A" Pavement.

Temporary Runaround Road surfaced with Item S-15 75 Cu.Yds. of traffic Compacted Surface Course per 100 Lin. Ft. & Item S-15 1 Ton of Calcium Chloride or Magnesium Chloride per 50 Cu.Yds. of Surface Course Aggregate.

CURVE DATA

P.I. Sta. 14+91.54 (T)
A = 15° - 21'
D = 4° - 00'
R = 1432.40'
L = 383.75'
T = 193.04'
E = 12.95'

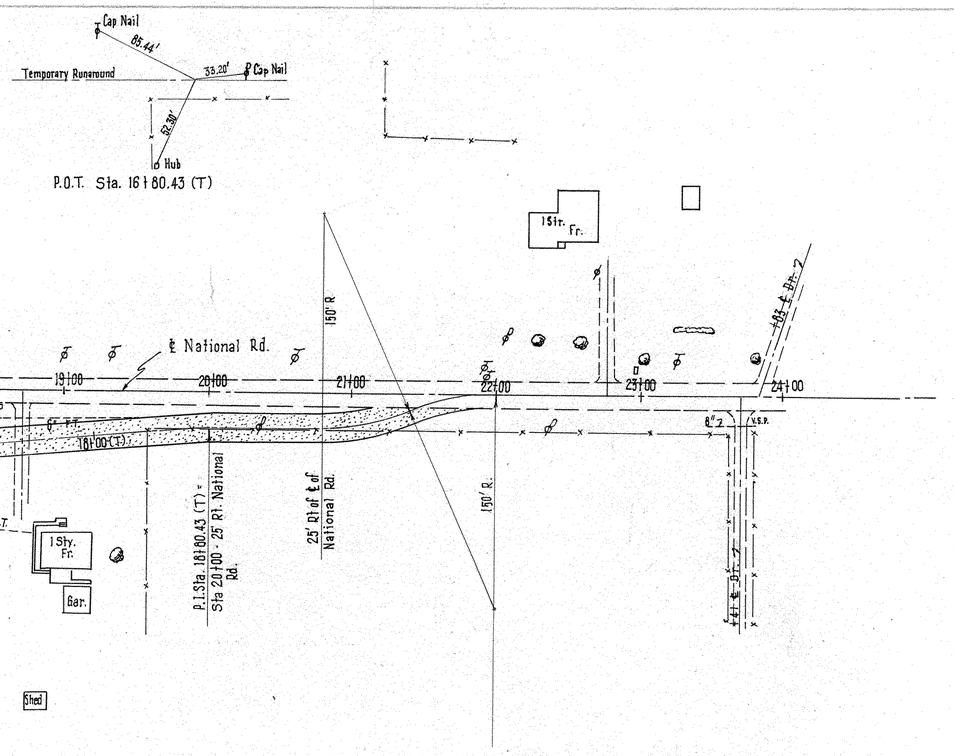
NOTE: Crown shall be removed throughout the length of the Curve with 75' transitions on each end. Pavement shall have a slope of 5/16"/ft. for Class A Pav't.

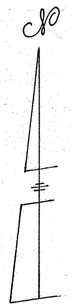
1.56 %
200' V.C.
P.C. Sta 6+50(T)
P.I. Sta. 7+00 (T)
Elev. 696.16
+ 0.30
696.80
6+77.57(T)
.425%
0.00%
P.I. Sta. 11+50
Elev. 696.66
P.C. Sta. 11+00(T)
100' V.C.
P.T. Sta. 12+00(T)
1.2%
P.C. Sta.
200' V.C.
P.I. Sta. 15+00 (T)
Elev. 692.66
.60%

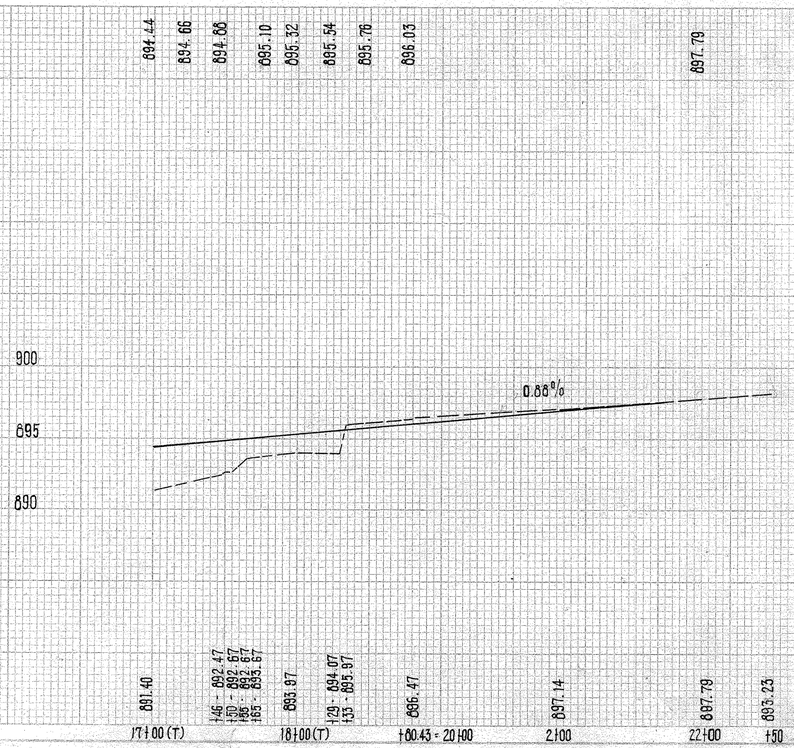
TEMPORARY RUNAROUND NATIONAL ROAD - Sta 0+00 to Sta 15+00

FED. RD. DIVISION	STATE	PROJECT		327
2	OHIO			466

AUGLAIZE COUNTY
AUG-25-5.05







TEMPORARY RUNAROUND AT NATIONAL ROAD

STRUCTURE UNDER N.Y.C. (T. & O.C.) R.R. STA. 2462 + 60

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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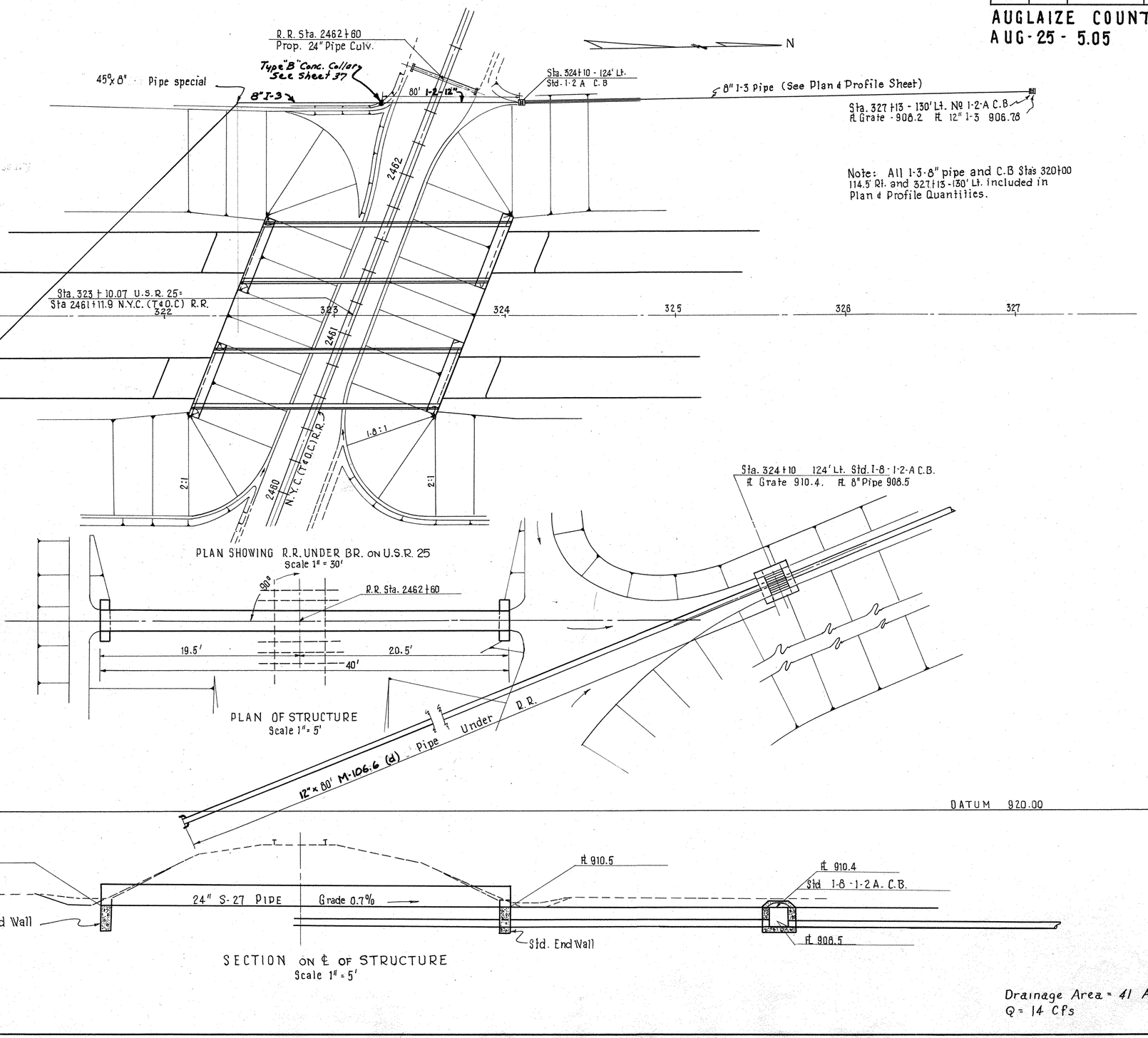
466

AUGLAIZE COUNTY
AUG-25-5.05



CULVERT DATA

TYPE: - 24" S-27 Pipe
SIZE: - 24" x 40'
WORK REQUIRED: - Build 24" S-27 Pipe Structure at 90° to ℄ of R.R. Sta. 2462 + 60 with std. endwalls Lt. & RT. Other work included during this operation is installation of 80' Ft. of 12" Pipe connected to 1-2 A C.B as shown. & the concrete collar.

ESTIMATED QUANTITIES

ITEM E-2	Excavation for Structure	33 Cu. Yds.
ITEM 1-2	12" Storm Sewer under Railroad as per plan	80 Lin. Ft.
ITEM 1-8	Std. 1-2 A Catch Basin	1 Each
ITEM S-1	Concrete for Structure Class "E"	.8 Cu. Yds
ITEM S-27	24" Heavy Duty Reinforced Concrete Culvert Pipe Sec. M-106.6 (d) Under Railroad as per plan	40 Lin. Ft.

Drainage Area = 41 Acres
Q = 14 CFs

STRUCTURE UNDER N.Y.C. (T.&O.C.) R.R. STA. 2462 + 60

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DEC 30 1986

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2	OHIO		

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AUGLAIZE COUNTY
AUG-25-5.05
BRIDGE No. 0571
0.9± Miles S.E. of Wapakoneta

N.E. Cor. of Hdl.
27½'
℄ Survey U.S.R. 25
P.O.T. Sta. 351+00
36½'
12" Willow

P.O.T. on U.S.R. 25

Sta. 349+00 - 114' Rt. I-5 Pipe
Special. Begin I-3 Pipe

18" F.T.

24" I-3 Pipe for Roadway Drainage

E-12 Pipe Removed

12" Mulberry
64.57'
℄ Survey U.S.R. 25
56.77'
P.O.T. Sta. 352+00
6" Sapling

Sta. 352+51.5 = 105' Lt. Begin Dumped Rock Fill (30' x 16' x 25') = 44.4 Cu. Yd.

P.O.T. on U.S.R. 25

16' x 1' x 5' Conc. Hdl.

22" F.T.

Sta. 352+73 - 98.5' Lt. End Dumped Rock Fill
6:00

26° 0'

℄ Southbound Lanes

24'

For Details & Quantities See Sheet № 44 & 45

Sta. 352+35 = Channel Sta. 5+00

To Sidney, O. ← 50' 349+00 N 0° 45' E 350+00 351+00 352+00 353+00 354+00 → To Lima, O

N End

E-12 Pipe Removed

6" F.T.

℄ Northbound Lanes

QUAKER RUN

Sta. 351+77.5 - 96' Rt. End Dumped Rock Fill
4:00

Sta 351+56 - 82.5' Rt. - Begin Dumped Rock Fill (16' x 16' x 2.5') = 26.7' Cu. Yd.

4" F.T.

18" Pipe

BENCH MARK
B. M. #6 Hub in Fence line 194' Rt. of Sta. 350+77
Elevation 893.80

BENCH MARK
B. M. #7 R.R. Spike base of 12" Willow 222' Lt. of Sta. 353+39
Elevation 892.13

DRAINAGE AREA = 5.1 SQ. MI.

PROPOSED STRUCTURE
TYPE: S-28 Sectional Corrugated Metal Structure
SIZE: Twin 15'-10" x 9'-10" x 176'
ROADWAY WIDTH: 44'-0"
SKEW: 26°-0" Left Forward
ALIGNMENT: Tangent
DRAINAGE AREA: 5.1 Sq. Miles

EXISTING STRUCTURE
NONE

902.66 902.59 902.52 902.44 902.36 902.28 902.22 902.14 902.06 901.99 901.92 901.84 901.76 901.69 901.62 901.54 901.46 901.39 901.32 901.24 901.16 901.09

900 - 0.30 % H.W. Elev. 897.6 (50 yr.) - 0.30 % 900
890 890
880 F/L Elev. 887.5± Normal Elev. 889.0± 880

895.54 895.54 894.04 892.74 892.67 892.97 892.57 892.97 892.37 892.07 892.07 892.27 892.57 892.27

125 150 175 349+00 125 150 175 350+00 125 150 175 351+00 106 116 122 125 137 144 150 160 175 352+00 125 150 175 353+00 125 150

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO. AUG 25-0571
U.S.R. 25 OVER QUAKER RUN
AUGLAIZE CO. U.S.R. 25
SEC. STA. 352+35
SCALE 1" = 20'

PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
Aerial Survey	Aerial Survey				

PROFILE OF PROPOSED ℄

MICROFILMED
DEC 30 1986

STRUCTURE STA. 352+35

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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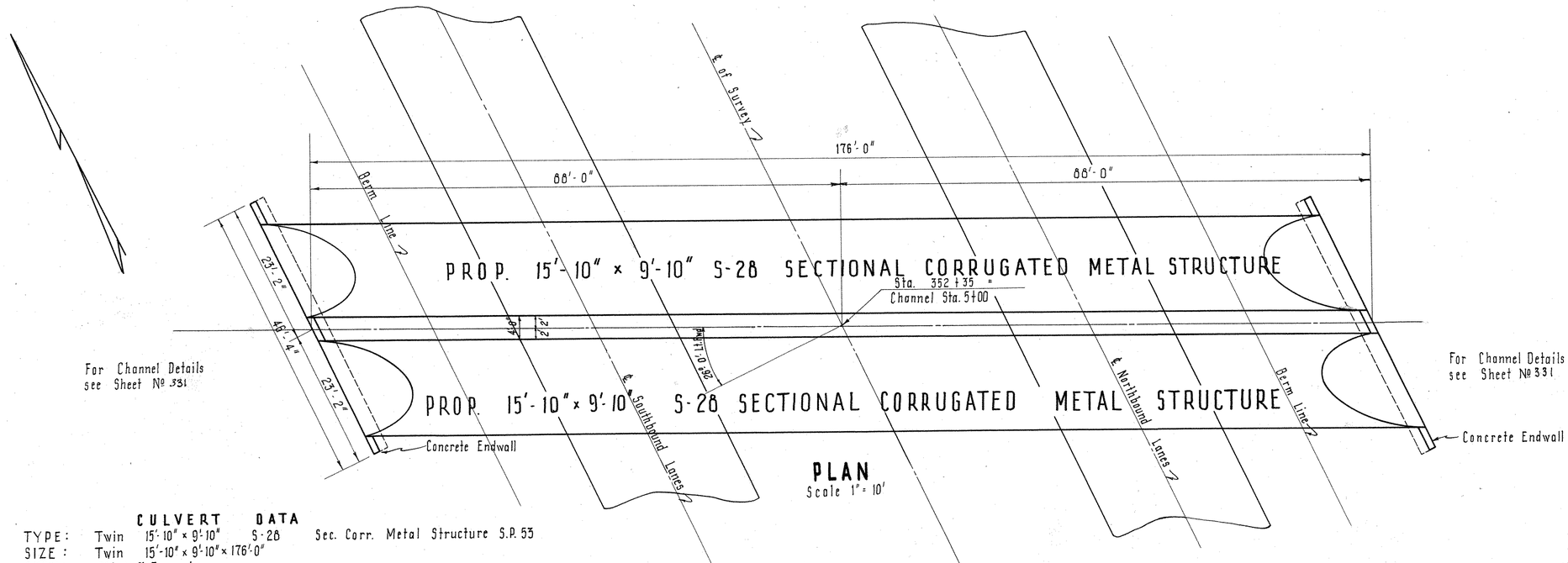
AUGLAIZE COUNTY
AUG-25-5.05



CULVERT DATA

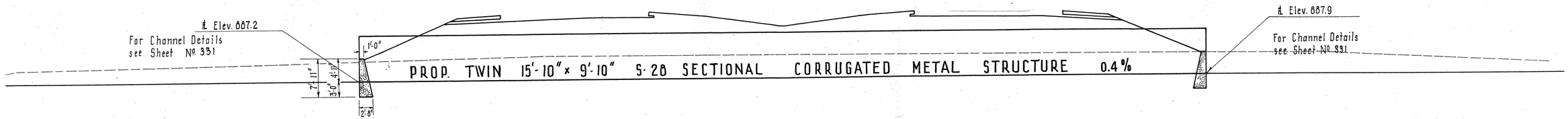
TYPE: Twin 15'-10" x 9'-10" S-28 Sec. Corr. Metal Structure S.P. 53
SIZE: Twin 15'-10" x 9'-10" x 176'-0"
SKEW: 26° Left Forward
WORK REQUIRED: Construct 176' Lin. Ft. of Twin 15'-10" x 9'-10" S-28 Sectional Corr. Metal Structure Left and Right of Sta. 352+35 on a skew of 26°-0' Left Forward with concrete Endwalls Rt & Lt. as shown. Excavate channel Rt. & Lt. as shown on Sheet No. 331 Gauge of Plates shall be № 3 for bottom and corner plates and № 5 for all other plates.

NOTE: Backfilling around this structure:
Backfill around this structure shall be placed in accordance with the requirements of Sec E-2.08. Payment for placing backfill shall be included in the unit price bid for Item E-3 Channel Excavation.

ESTIMATED QUANTITIES

ITEM	E-2	Excavation for Structures	134 cu. yds.
ITEM	E-3	Channel Excavation	2249 cu. yds.
ITEM	S-1	Concrete for Structures Class "E"	32.4 cu. yds.
ITEM	S-28	15'-10" x 9'-10" Sec. Corr. Metal Structure (5-3) gage	352 Lin. Ft.
ITEM	I-10	Dumped Rock Fill	79 Cu. Yd.

Datum Line Elev. 915.00



SECTION ON ℄ OF STRUCTURE
Scale: 1" = 10'-0"

STRUCTURE STA. 352+35

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
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	End Area		Cu. Yds.	
	Cut	Fill	Cut	Fill
Sta. 5+86 Ahead	230	0	290	92
Back	204	64		
	206	66	300	120
	202	63	372	115
	200	61	275	65
Sta. 4+12 Ahead	191	60	366	0
Back	215	0		
Sta. 3+50	125	0	114	0
Sta. 3+00	0	0		

Excavation	2249	Cu. Yds.
Embankment	412	Cu. Yds.
Embankment	1.15% 474	Cu. Yds.

CHANNEL SECTIONS (STRUCTURE STA. 352+35)

STRUCTURE STA. 380 + 68

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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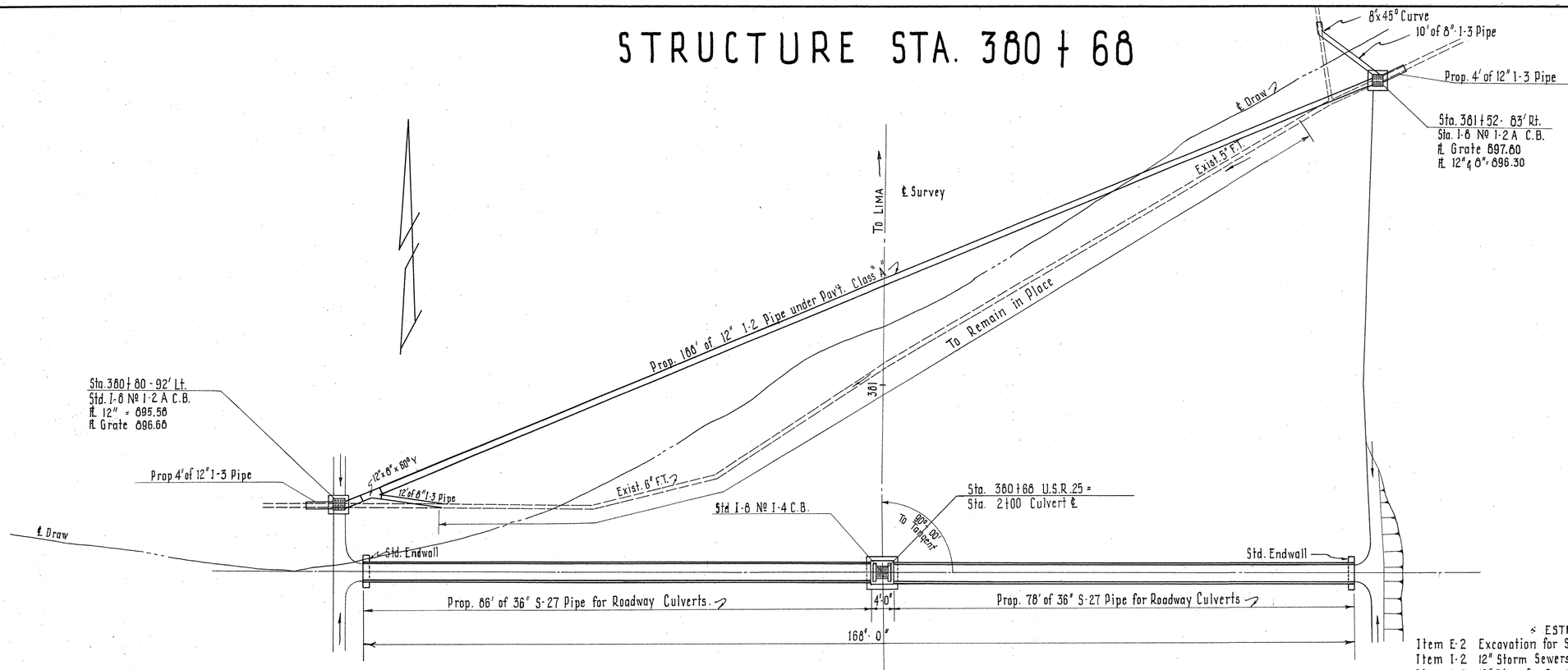
AUGLAIZE COUNTY
AUG-25-5.05



PLAN
Scale: 1" = 10'-0"

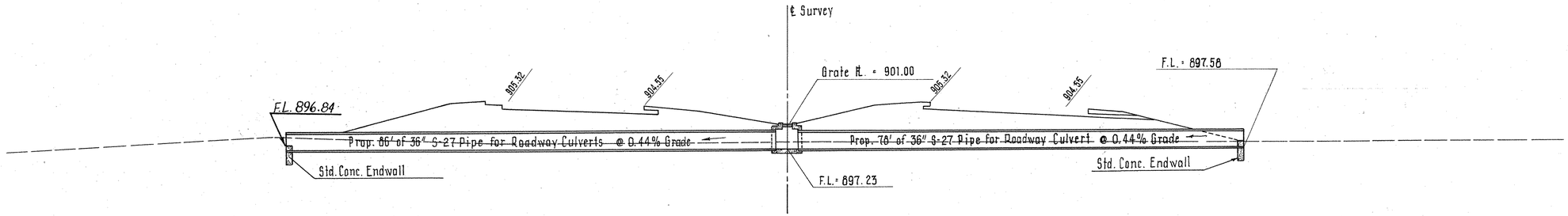
* CULVERT DATA *

TYPE: 36" S-27 Pipe for Roadway Culverts (P.C. 3 & 4)
SIZE: 86'x 36" & 78' x 36" S-27 Pipe
SKEW: 0°- 00'
WORK REQUIRED: Prop. 86'x 36" S-27 Pipe on Lt. & 78'x 36" S-27 Pipe on Rt. at Sta. 380+68 with Standard concrete endwalls P.C.3&4). The median is drained by Std. I-4 C.B. connecting the Culvert. pipe as shown. The existing field tile shall be replaced with 12" I-2 pipe class "A" and Std. I-8 Nº 1-2A C.B. shall be placed in the ditches at each end. I-3 Pipe shall connect the F.T to the Catch Basins. All work shall be completed as shown above.

* ESTIMATED QUANTITIES *

Item E-2	Excavation for Structures	63 Cu.Yds.
Item I-2	12" Storm Sewers under Pavement Class "A"	184 Lin.Ft.
Item I-3	12" Pipe for Roadway Drainage	8 Lin.Ft.
Item I-8	Std. Nº 1-2A Catch Basin	2 Each
Item I-8	Std. Nº 1-4 Catch Basin	1 Each
Item S-1	Concrete for Structures Class "E"	1.18 Cu.Yd.
Item S-27	36" Pipe for Roadway Culverts.	164 Lin.Ft.
Item I-3	8" Pipe for Roadway Drainage	22 Lin.Ft.
Item I-5	8"x 45° Pipe Special for Roadway Drainage	1 Each
Item I-5	12"x 8"x 60° Y Pipe Special for I-2 Pipe under Pavement.	1 Each

Datum Elev. 940.00



SECTION ON ℄ OF STRUCTURE

Drainage Area = 40 Acres
Q = 41 C.f.s.

STRUCTURE STA. 380 + 68

STRUCTURE STA. 391 + 17

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
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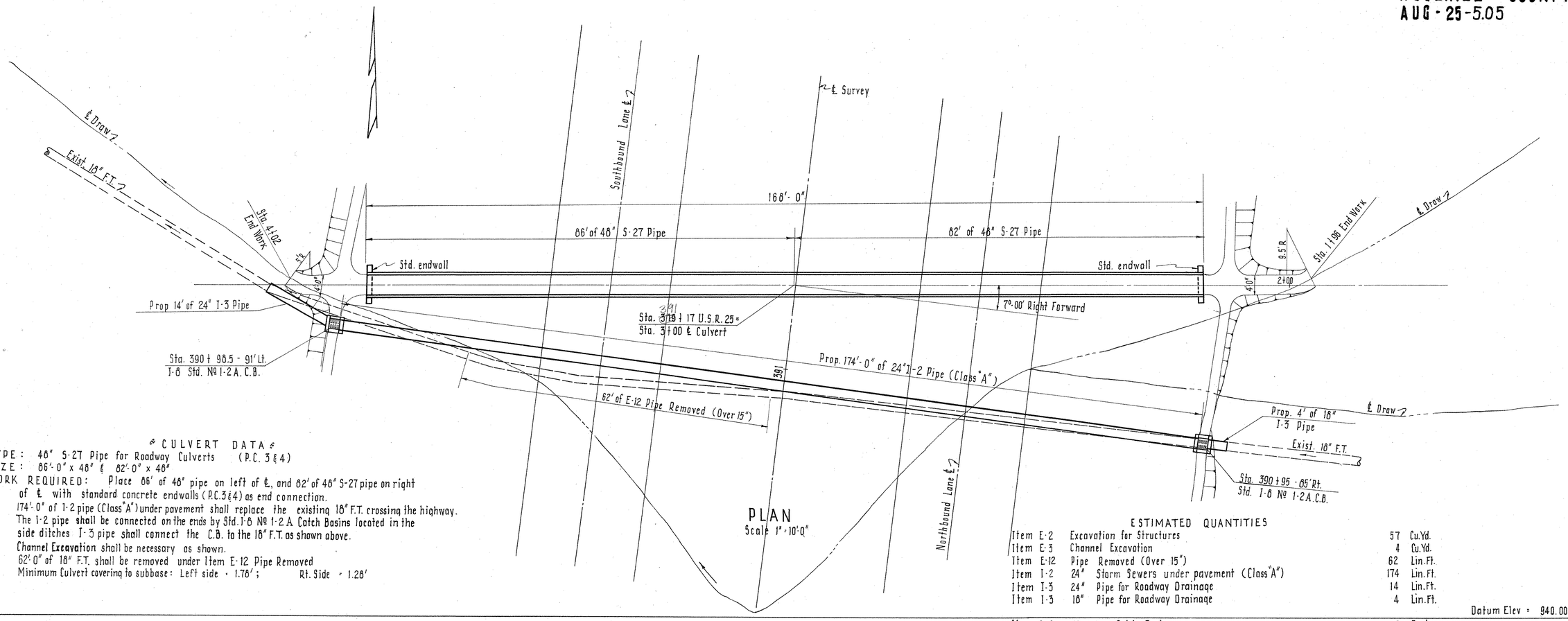


PLAN
Scale 1" = 10'-0"

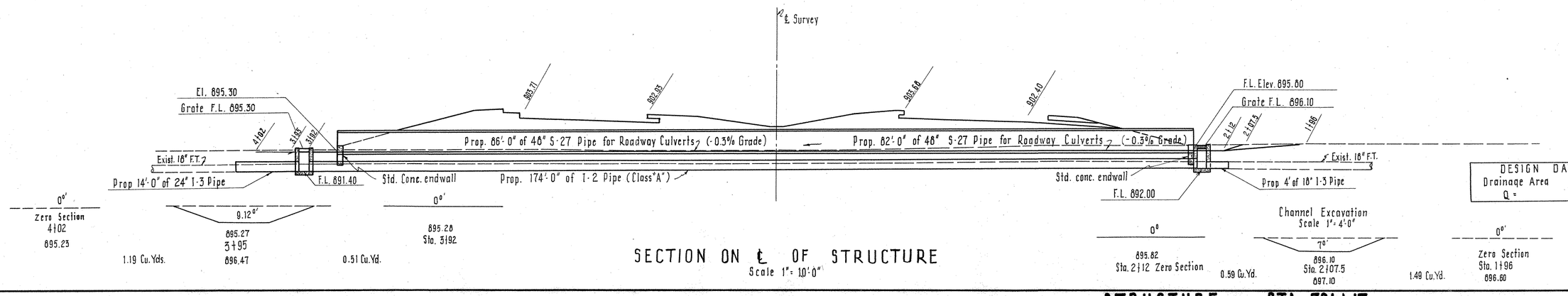
℄ CULVERT DATA ℄

TYPE: 48" S-27 Pipe for Roadway Culverts (P.C. 3 ℄ 4)
SIZE: 86'-0" x 48" ℄ 82'-0" x 48"
WORK REQUIRED: Place 86' of 48" pipe on left of ℄, and 82' of 48" S-27 pipe on right of ℄ with standard concrete endwalls (P.C. 3 ℄ 4) as end connection.
174'-0" of 1-2 pipe (Class "A") under pavement shall replace the existing 18" F.T. crossing the highway.
The 1-2 pipe shall be connected on the ends by Std. I-8 № 1-2 A Catch Basins located in the side ditches I-3 pipe shall connect the C.B. to the 18" F.T. as shown above.
Channel Excavation shall be necessary as shown.
62'-0" of 18" F.T. shall be removed under Item E-12 Pipe Removed
Minimum Culvert covering to subbase: Left side = 1.76'; Rt. Side = 1.28'

ESTIMATED QUANTITIES

Item E-2	Excavation for Structures	57	Cu.Yd.
Item E-3	Channel Excavation	4	Cu.Yd.
Item E-12	Pipe Removed (Over 15")	62	Lin.Ft.
Item I-2	24" Storm Sewers under pavement (Class "A")	174	Lin.Ft.
Item I-3	24" Pipe for Roadway Drainage	14	Lin.Ft.
Item I-3	18" Pipe for Roadway Drainage	4	Lin.Ft.
Item I-8	№ 1-2A Catch Basin	2	Each
Item S-1	Concrete for Structures - Class "E"	1.72	Cu.Yd.
Item S-27	48" Pipe for Roadway Culverts	168	Lin.Ft.

Datum Elev = 940.00



SECTION ON ℄ OF STRUCTURE
Scale 1" = 10'-0"

DESIGN DATA
Drainage Area 109 Acres
Q = 76 C.F.S.

STRUCTURE STA. 391 + 17

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
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Sta. 407+85 96' Lt. Begin 15' Paved Gutter
Ft Elev. 890.99
Ft Elev. 880.64
Sta. 407+96 94.5' Lt. End Paved Gutter
Ft Elev. 887.9
Ft Elev. 887.9
10°
88'-0"
170'-0"
5" F.T.
82'-0"
Sta. 407+86
Ft Elev. 883.4
Ft Elev. 886.84
Sta. 407+48 79' Rt. Begin 20' Paved Gutter
Ft Elev. 883.5
Sta. 407+67 84' Rt. End Paved Gutter
Ft Elev. 886.84

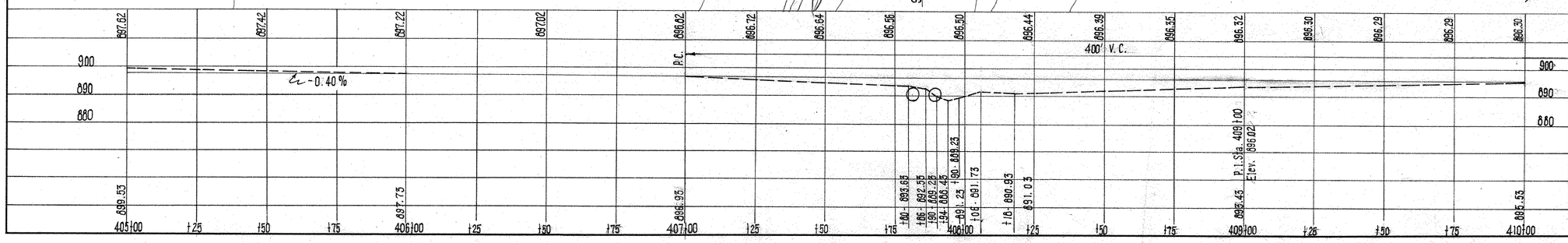
405 406 407 408 409 410 411

898 896.9 896.6 896 894 898 900 899.0 897.5 892 890 892 894 896.2 896 896.5 896.7 896 895.4 895.7 895.3

Existing Structure Data
None
Drainage Area = 862 Acres

PROPOSED STRUCTURE DATA
TYPE: Twin 48" S-27 Pipe
SKEW: 10° Left Forward

DRAINAGE AREA = 1.25 Sq. Mi.



STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO. AUG. 25-0670

AUGLAIZE CO. U.S.R. 25
SEC. STA. 407+86
SCALE 1"= 20'

PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
Aerial Survey	Aerial Survey				

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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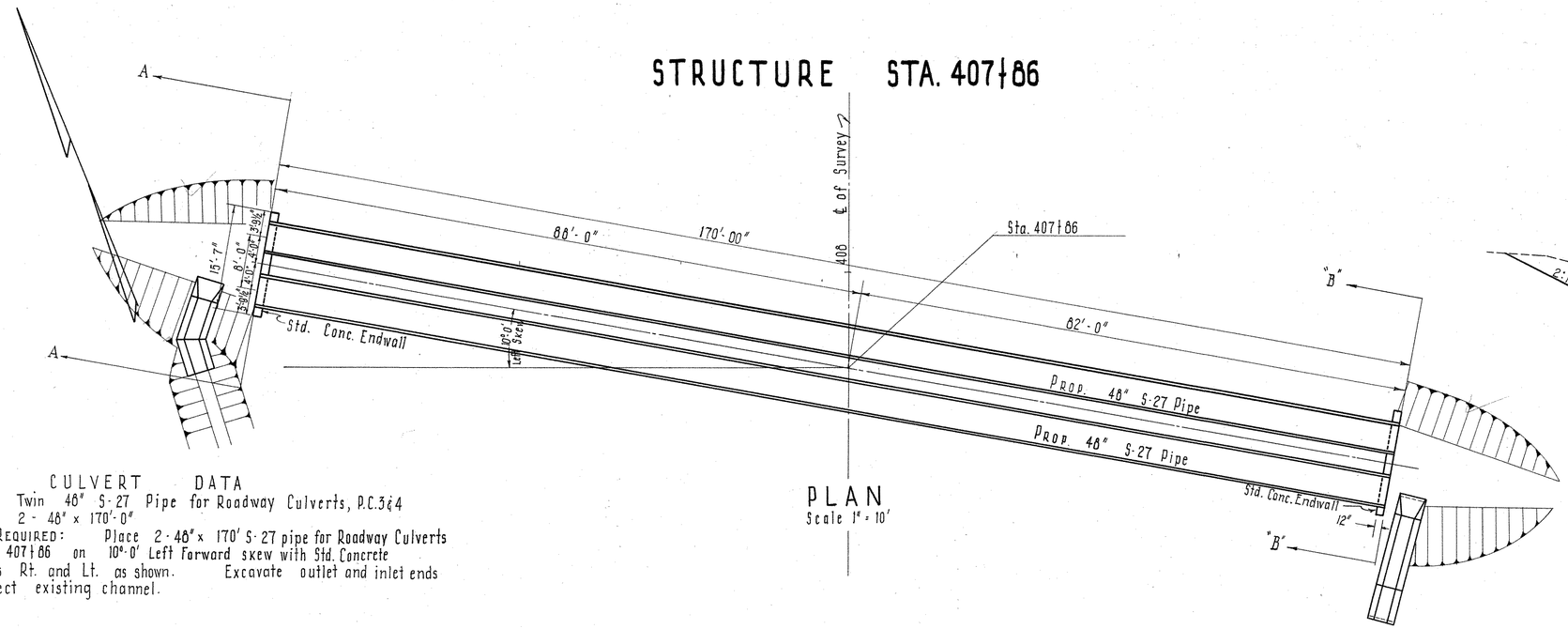
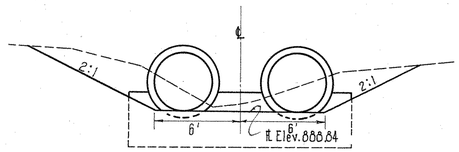
AUGLAIZE COUNTY
AUG-25-5.05

STRUCTURE STA. 407+86



PLAN
Scale 1" = 10'



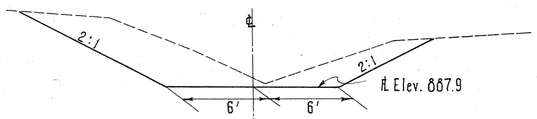
Section B-B showing channel
Scale 1" = 5'

CULVERT DATA

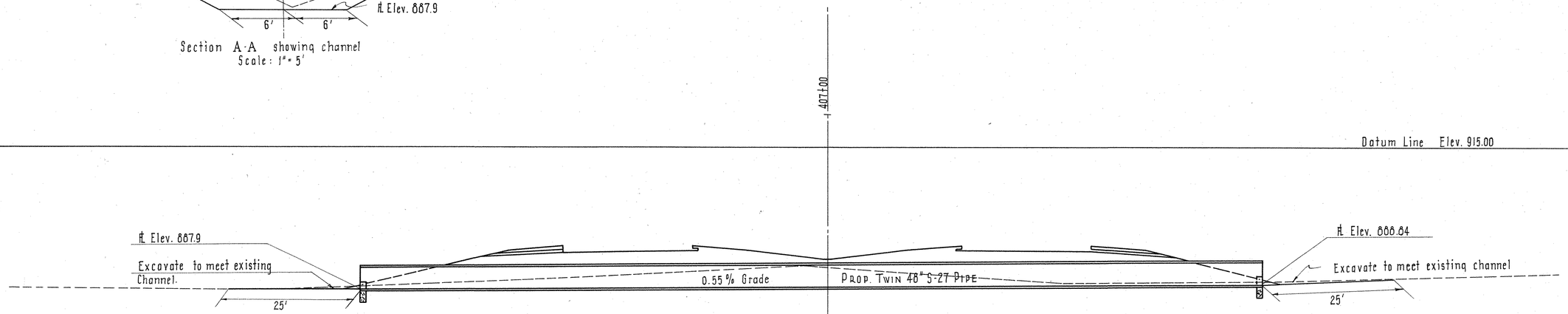
TYPE: Twin 48" S-27 Pipe for Roadway Culverts, P.C.3&4
SIZE: 2 - 48" x 170'-0"
WORK REQUIRED: Place 2-48" x 170' S-27 pipe for Roadway Culverts at Sta. 407+86 on 10°-0' Left Forward skew with Std. Concrete Endwalls Rt. and Lt. as shown. Excavate outlet and inlet ends to connect existing channel.

ESTIMATED QUANTITIES

ITEM	E-2	Excavation for Structures.	276 Cu.Yds.
ITEM	E-3	Channel Excavation	40 Cu.Yds.
ITEM	S-1	Concrete for Structures Class "E"	3.6 Cu.Yds.
ITEM	S-27	48" Pipe for Roadway Culverts	340 Lin.Ft.
ITEM	I-14	Paved Gutter, Type I	33 Lin.Ft.



Section A-A showing channel
Scale: 1" = 5'



SECTION ON ℄ OF STRUCTURE
Scale: 1" = 10'

DRAINAGE AREA = 882 ACRES
Q = 180 C.F.S.

STRUCTURE STA. 407+86

STRUCTURE LT. OF STA. 428+02.5 TO STA. 430+06.5

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
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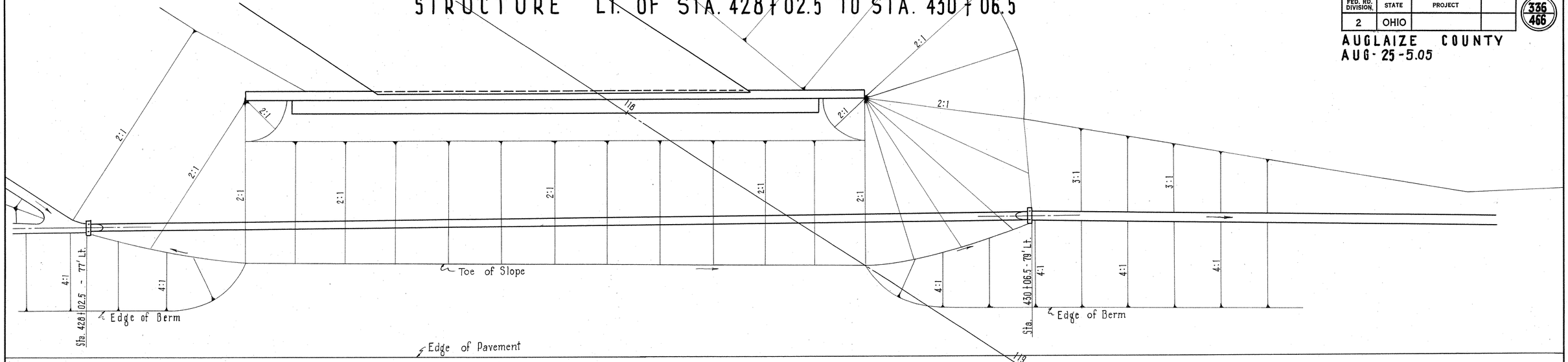


PLAN OF STRUCTURE LT OF ℄ OF SURVEY
Scale 1" = 10'

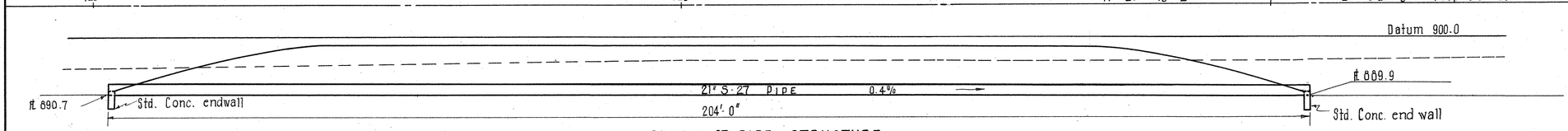
CULVERT DATA

TYPE: 21" S-27 Pipe Structure
SIZE: 21" x 204'
WORK REQUIRED: Build S-27 Pipe structure (Std. Drwg P.C.4) Lt of ℄ of Survey from Sta. 428+02.5 to Sta. 430+06.5, Including Std. Concrete end walls Lt. & Rt. and necessary excavation.

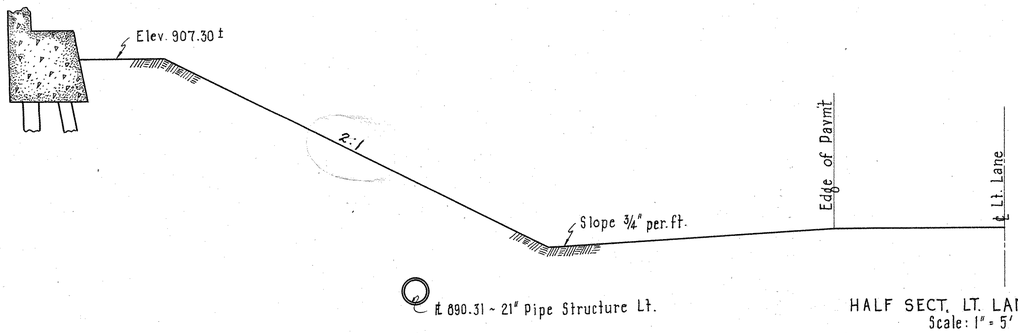
ESTIMATED QUANTITIES

ITEM	E-2 Excavation for Structures.	125	Cu. Yds.
ITEM	S-1 Concrete for Structures Class "E"	.72	Cu. Yds
ITEM	S-27 21" Pipe for Roadway Culverts.	204	Lin. Ft.

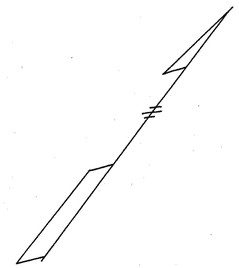
Sec M-6.8(b) or Sec M-6.6(b)



SECT. S-27 PIPE STRUCTURE
Scale 1" = 10'



HALF SECT. LT. LANE STA. 429+00
Scale: 1" = 5'



STRUCTURE LT. OF STA. 428+02.5 TO STA. 430+06.5

STRUCTURE RT OF STA. 431+35 TO STA. 433+45

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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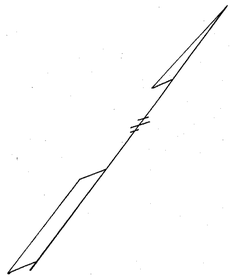
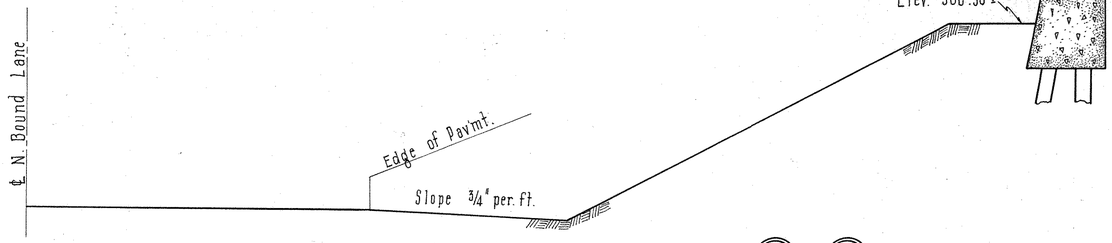
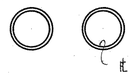
AUGLAIZE COUNTY
AUG-25-5.05



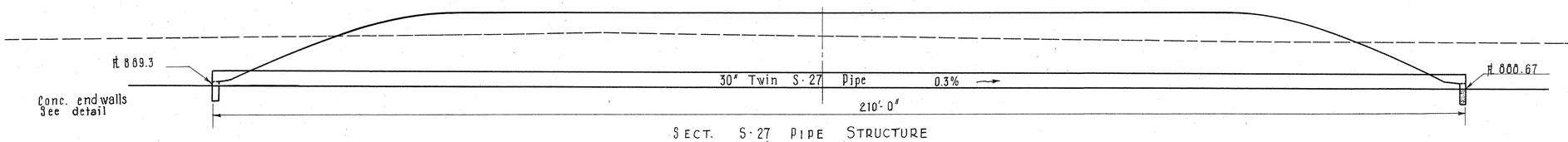


Half Sect. N. Bound Lane Sta. 432+00
Scale 1" = 5'

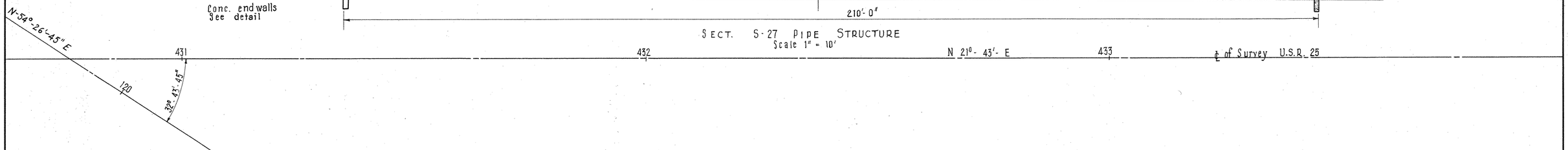


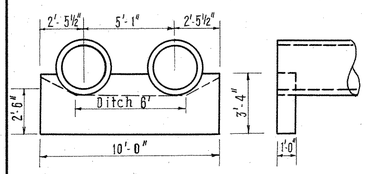
℄ 889.11 - 30" Twin pipe structure. Rt.

Datum 905.0



SECT. S-27 PIPE STRUCTURE
Scale 1" = 10'





Detail of endwall for N & S. end of Structure
Scale = 1/4" = 1'

CULVERT DATA

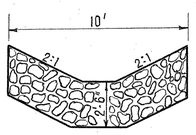
TYPE ~ 30" S-27 Twin Pipe Structure
SIZE ~ 30" x 210' (Twin)
WORK REQUIRED: Build S-27 twin pipe structure Rt. of ℄ of Survey, from Sta. 431+35 To Sta. 433+45 including concrete end walls as detailed for each end of structure.
Provide 26 Cu. Yds. of dumped rock fill as shown.

ESTIMATED QUANTITIES

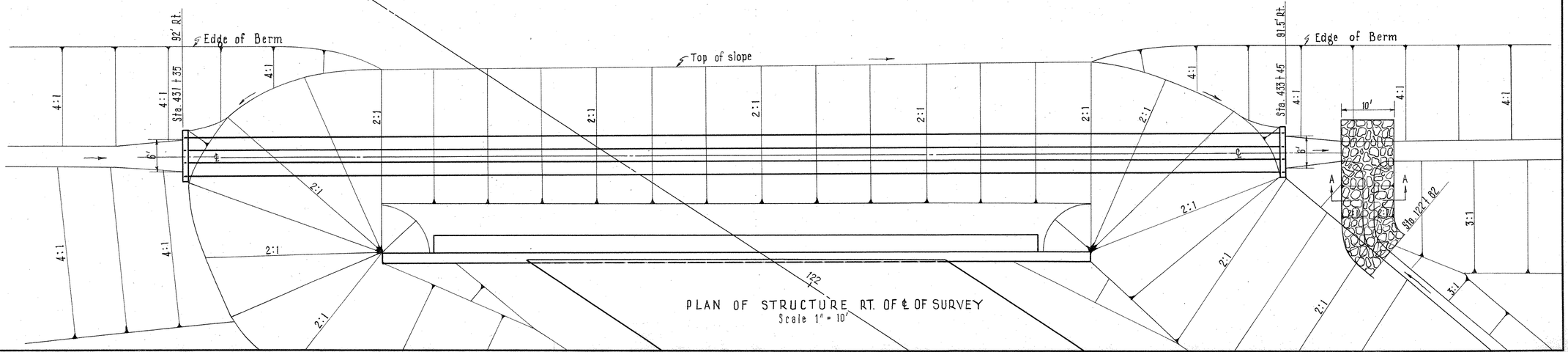
ITEM	E-2 Excavation for structure	632	Cu. Yds.
ITEM	1-10 Dumped Rock Fill	26	Cu. Yds.
ITEM	S-1 Concrete for Structure Class "E"	2.1	Cu. Yds.
ITEM	S-27 30" Pipe for Roadway Culvert	420	Lin. Ft.

Sec M-6.8 (b) or Sec M-6.6 (b)

Drainage Area = 46 Acres
Q = 45 C.F.S.



Sect. A-A of Dumped Rock Fill
Scale: 1/4"=1'



PLAN OF STRUCTURE RT. OF ℄ OF SURVEY
Scale 1" = 10'

STRUCTURE RT. OF STA. 431+35 TO STA. 433+45

STRUCTURE STA. 463 + 49

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY
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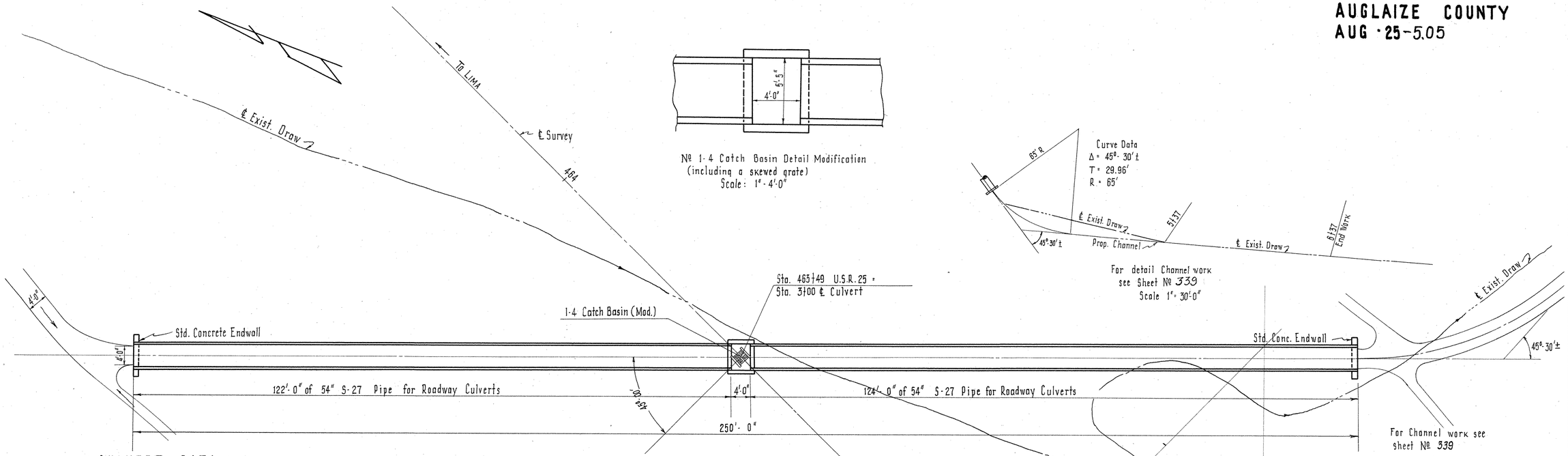


№ 1-4 Catch Basin Detail Modification
(including a skewed grate)
Scale: 1"-4'-0"

For detail Channel work
see Sheet № 339
Scale 1"-30'-0"

* CULVERT DATA *

TYPE: 54" S-27 Pipe for Roadway Culverts, P.C. 3&4
SIZE: 122'-0" x 54" & 124'-0" x 54"
SKEW: 45°-0' Left forward
WORK REQUIRED: Two Lengths of 54" S-27 Pipe shall be placed at a 45° skew at Sta. 463+49 as shown above
The median shall be drained by a modified 1-4 Catch Basin connecting the two Pipe Culverts. The ends shall be fitted with Std. Conc. endwalls (P.C. 3&4). Channel Excavation shall be required at the outlet end.

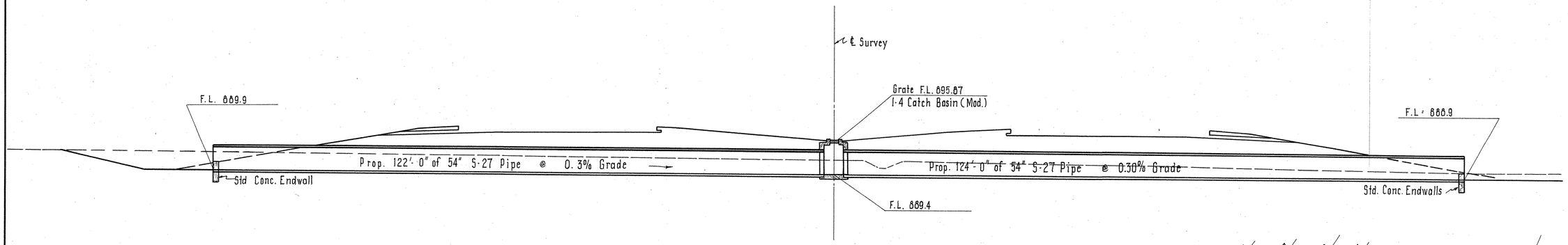
NOTE: If contractor elects to use Sec M-6.4(d) pipe the gage shall be № 10 or heavier.

PLAN
Scale: 1"-10'-0"

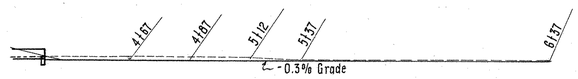
* ESTIMATED QUANTITIES *

Item E-2	Excavation for Structure	216 Cu.Yd.
Item E-3	Channel Excavation	39 Cu.Yd.
Item 1-8	№ 1-4 Catch Basin (Modified)	1 Each
Item S-1	Concrete for Structures Class E	1.92 Cu.Yd.
Item S-27	54" Pipe for Roadway Culverts	246 Lin.Ft.

Datum Elev. 930.00



SECTION ON ℄ OF STRUCTURE
Scale: 1"-10'-0"



Profile Detail of Channel Work on Right.
Scale 1"-30'-0"

Design Data	
Drainage Area	119 Acres
Q:	117 c.f.s.

STRUCTURE STA. 463 + 49

End Area		Volume	
Cut	Fill	Cut	Fill
0	0	0	0
4	0	7	0
7	0	8	2
10	3	10	5
12	4	8	2
7	0	1	0
0	0	0	0

Excavation	39	Cu.Yd.
Embankment	7	Cu.Yd.
Embankment +15%	8	Cu.Yd.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUG-25-5.05

Sta. 41+40

Sta. 41+36

Begin Channel Work

41+36
888.9

End Channel Work

888.3
Cl 37
888.3

888.6
5+37
886.9

888.64
5+12
890.1

888.72
4+87
890.4

888.78
4+62
890.7

888.86
4+40
889.9

Plan Detail of Channel Work
for Structure Sta. 463+49
Scale: - 20'-0"

Sta. 5+37
El. 886.6

Sta. 5+12

Sta. 4+87

Sta. 4+62

Sta. 4+40

Sta. 4+36

Sta. 41+36 End Work
El. 886.3

4'-0"

45° 30'

65'-0"

PL 4+55.96

4100

℄ of Culvert

46°

℄ of Survey

1+49

463

462

CHANNEL SECTIONS - STRUCTURE STA. 463+49

STRUCTURE STA. 490 + 10

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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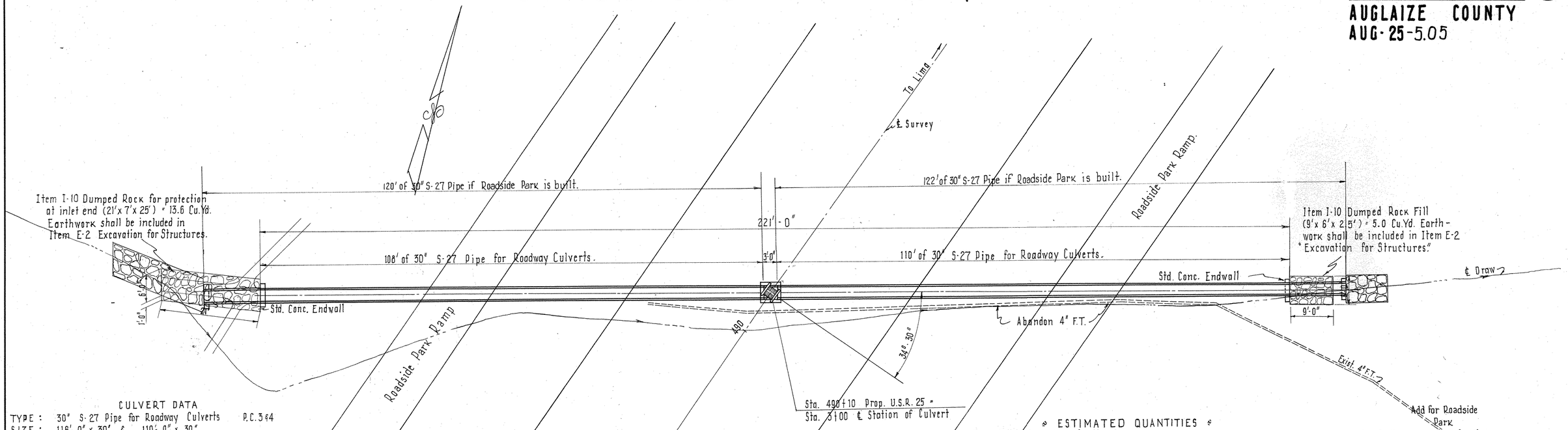
AUG-25-5.05



CULVERT DATA

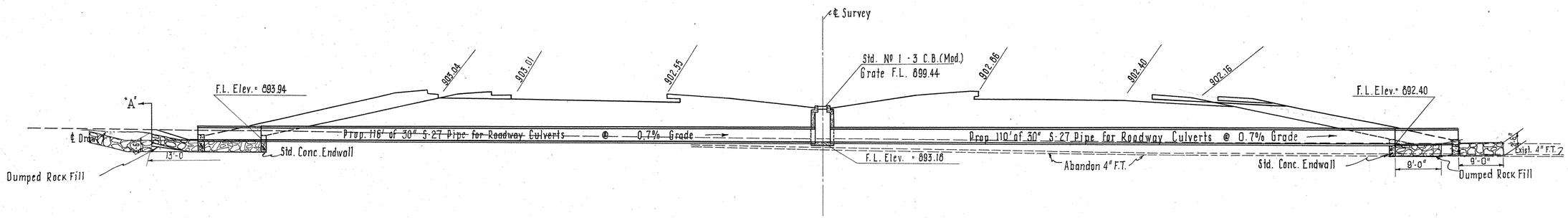
TYPE : 30" S-27 Pipe for Roadway Culverts P.C.3&4
SIZE : 116'-0" x 30" & 110'-0" x 30"
SKEW : 34° - 30' Right Forward
WORK REQUIRED : Place 108' of 30" S-27 Pipe on left and 110' of 30" S-27(Mod.)Pipe on right of Sta. 490+10. The S-27 Pipe shall be joined in the center by a Std. Nº 1-3 Catch Basin. The inlet and outlet end shall be connected by standard concrete endwalls (P.C.4). also each end shall be protected by Dumped Rock Fill as shown. The catch basin grate shall be skewed to meet the median drainage centerline.

ESTIMATED QUANTITIES

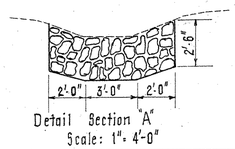
Item E-2	Excavation for Structures	67 Cu.Yd.	5 Cu.Yd.
Item I-8	Std. Nº 1-3 Catch Basin (Mod.)	1 Each	
Item I-10	Dumped Rock Fill	18.6 Cu.Yd.	
Item S-1	Concrete for Structures, Class "E"	1.02 Cu.Yd.	
Item S-27	30" Pipe for Roadway Culverts Sec M-6.8(b) or Sec M-6.6(b)	218 Lin.Ft.	24 Lin.Ft.

PLAN
Scale : 1" = 10'-0"

Datum Elev. 931.00



SECTION ON ℄ OF STRUCTURE
Scale : 1" = 10'-0"



Detail Section "A"
Scale: 1" = 4'-0"

DESIGN DATA		
Drainage Area	=	17 Acres
Q	=	30 c.f.s.

STRUCTURE STA. 490 + 10

STRUCTURE STA. 493 + 78

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
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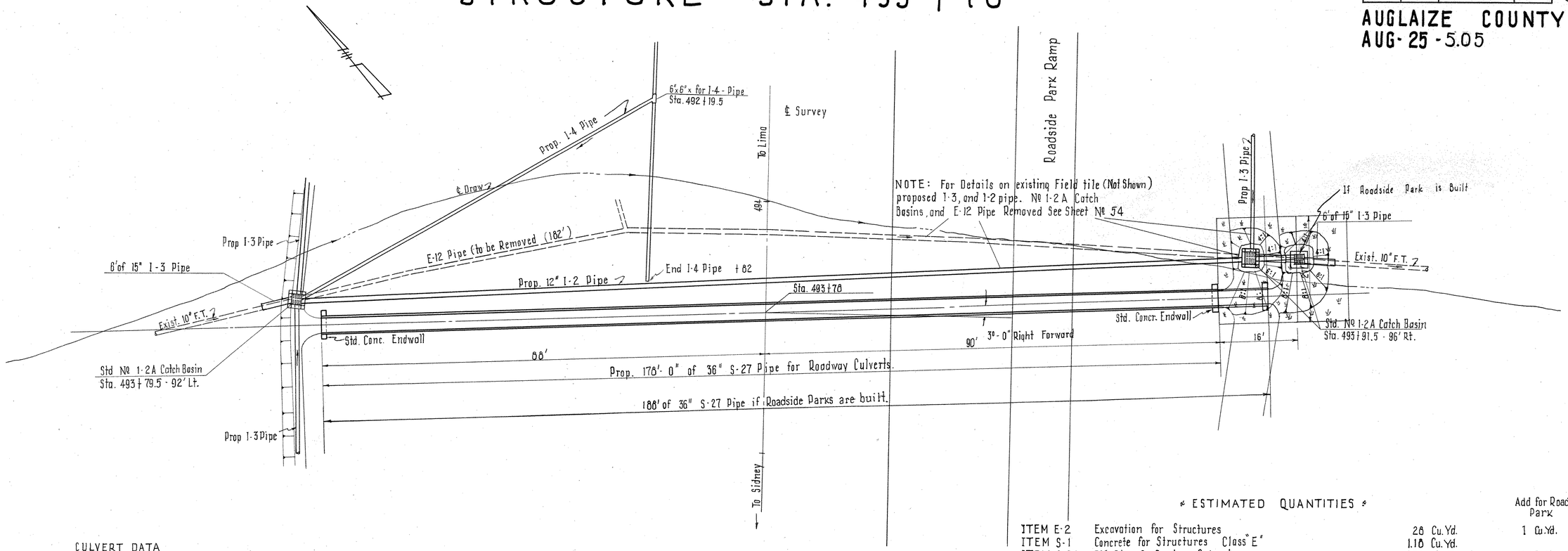


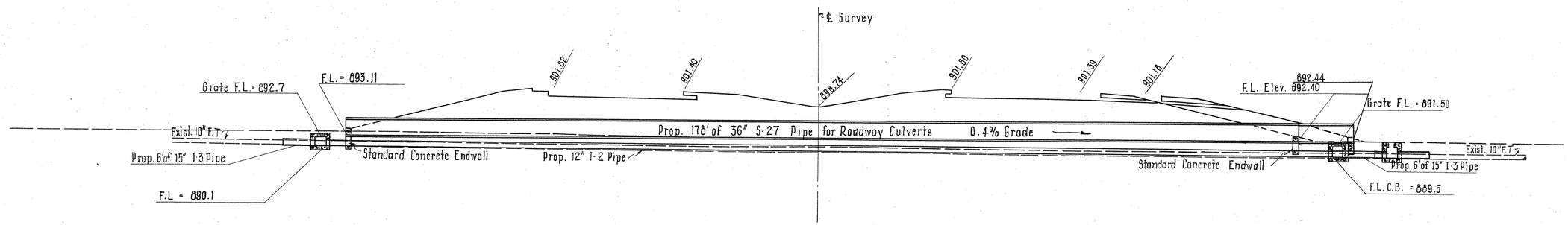
PLAN
Scale: 1"=10'-0"

* ESTIMATED QUANTITIES *

			Add for Roadside Park
ITEM E-2	Excavation for Structures	26 Cu.Yd.	1 Cu.Yd.
ITEM S-1	Concrete for Structures Class "E"	1.16 Cu.Yd.	
ITEM S-27	36" Pipe for Roadway Culverts.	178 Lin.Ft.	10 Lin.Ft.
ITEM L-10	Sodding	37 Sq.Yds.	
ITEM I-2	12" Storm Sewers under Pavement & Approaches Class "A"		10 Lin.Ft.

CULVERT DATA
TYPE: 36" S-27 Pipe for Roadway Culverts P.C. 3 & 4
SIZE: 36" x 178'-0"
SKEW: 3°-0' Right Forward
WORK REQUIRED: Place 178' of 36" S-27 Pipe for Roadway Culverts at Sta. 493+78 with 3°-0" right forward skew. The ends shall be protected by standard concrete endwalls (P.C. 4). At the outlet end the ground shall be sloped so that the water will run into the Catch Basin first as shown. All field tile not shown and all other prop. work shall be taken care of by the details on Plan & Profile Sheet №. 54

Datum Elev. 930.00



SECTION ON ℄ OF STRUCTURE
Scale: 1"=10'-0"

* DESIGN DATA *
Drainage Area = 21 Acres
Q = 36 c.f.s.

STRUCTURE STA. 493 + 78

STRUCTURE STA. 498 + 24

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
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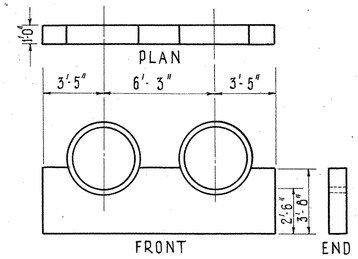


ENDWALL DETAIL
Proposed concrete endwall for
twin 42" S-27 Pipe for Roadway Culverts
Based on Standard Drawing P.C.4
Scale: 1"= 4'-0"

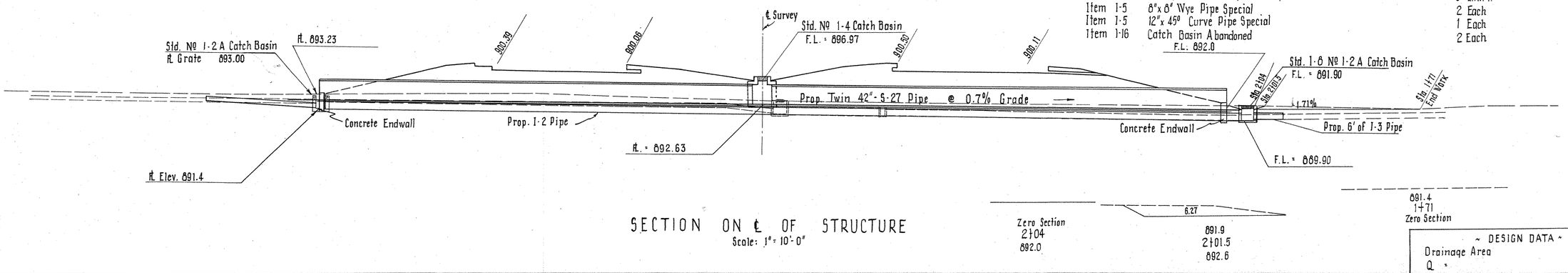
PLAN
Scale: 1"=10'-0"

CULVERT DATA
TYPE: Twin 42" S-27 Pipe for Roadway Culverts (P.C.3 & P.C.4)
SIZE: 178'-0" x 42"; 84'-0" x 42"; 90'-0" x 42"
SKEW: 19°-00' Left Forward
WORK REQUIRED: Place twin 42" Pipes for Roadway Culverts at Sta. 498+24 at a 19°-00' Left Forward skew. On one of the twin 42" pipes place a standard I-4 Catch Basin for Median drainage. The ends of the pipe shall be protected by concrete endwalls as shown above.

~ ESTIMATED QUANTITIES ~

Item E-2	Excavation for Structures	120	Cu.Yd.
Item E-3	Channel Excavation	4	Cu.Yd.
Item E-12	Pipe Removed (Over 15")	15	Lin.Ft.
Item E-12	Pipe Removed (15" & Under)	86	Lin.Ft.
Item S-1	Concrete for Structures Class "E"	3.1	Cu.Yd.
Item S-27	42" Pipe for Roadway Culverts	352	Lin.Ft.
Item 1-8	Standard № 1-4 Catch Basin (Mod.)	1	Each
Item 1-8	Standard № 1-2-A Catch Basin	2	Each
Item 1-2	15" Pipe for Storm Sewer under Pavt. (Class "A")	180	Lin.Ft.
Item 1-3	8" Pipe for Roadway Drainage	54	Lin.Ft.
Item 1-3	12" Pipe for Roadway Drainage	36	Lin.Ft.
Item 1-3	15" Pipe for Roadway Drainage	6	Lin.Ft.
Item 1-5	8"x 8" Wye Pipe Special	2	Each
Item 1-5	12"x 45° Curve Pipe Special	1	Each
Item 1-16	Catch Basin Abandoned	2	Each

Datum Elev. 926.00



SECTION ON ℄ OF STRUCTURE
Scale: 1"= 10'-0"

~ DESIGN DATA ~

Drainage Area	145 Acres
Q =	128 c.f.s.

STRUCTURE STA 498 + 24

STRUCTURE STA. 541+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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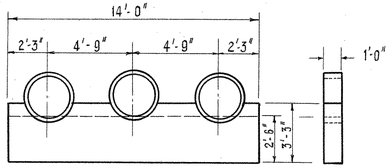
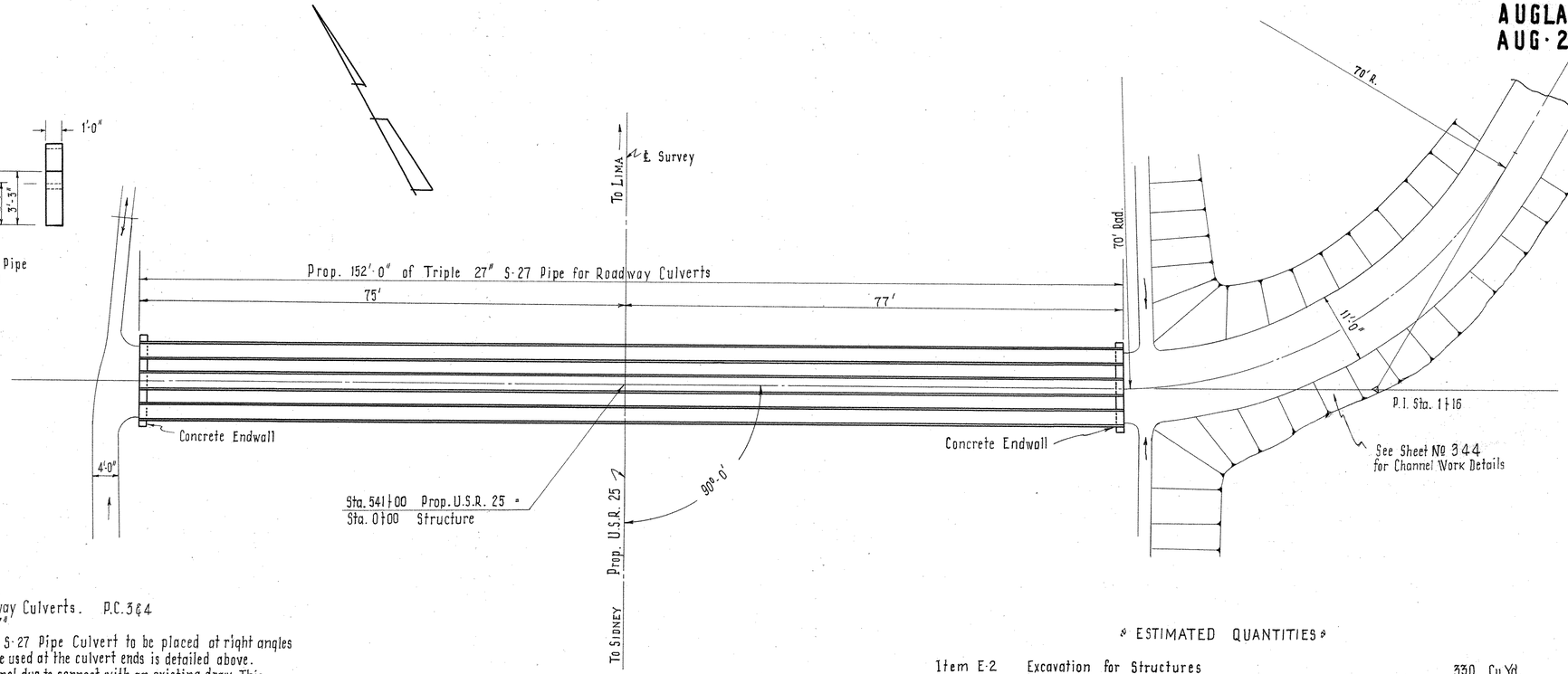


Endwall Detail
Prop. concrete endwall for triple 27" S-27 Pipe culvert. Basic design taken from standard drawing P.C. 4.
Scale: 1"-4'-0"



CULVERT DATA

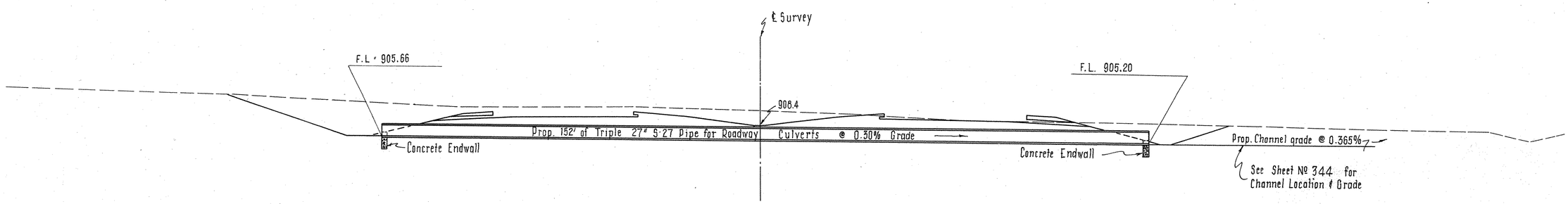
TYPE: Proposed Triple 27" S-27 Pipe for Roadway Culverts. P.C. 3&4
SIZE: 152'-0" x 27"; 152'-0" x 27"; 152'-0" x 27"
WORK REQUIRED: Proposed 152'-0" of Triple 27" S-27 Pipe Culvert to be placed at right angles to Sta. 541+00. The concrete endwalls to be used at the culvert ends is detailed above. At the outlet end there will be a special channel dug to connect with an existing draw. This detail will be shown on the channel X-Section sheets.

ESTIMATED QUANTITIES

Item E-2	Excavation for Structures	330 Cu.Yd.
Item E-3	Channel Excavation	372 Cu.Yd.
Item S-1	Concrete for Structures, Class "E"	3.0 Cu.Yd.
Item S-27	27" Pipe for Roadway Culverts. Sec M-6.8 (b) or Sec M-6.6 (b)	456 Lin. Ft.

PLAN
Scale: 1"=10'-0"

Datum Elev. = 945.00

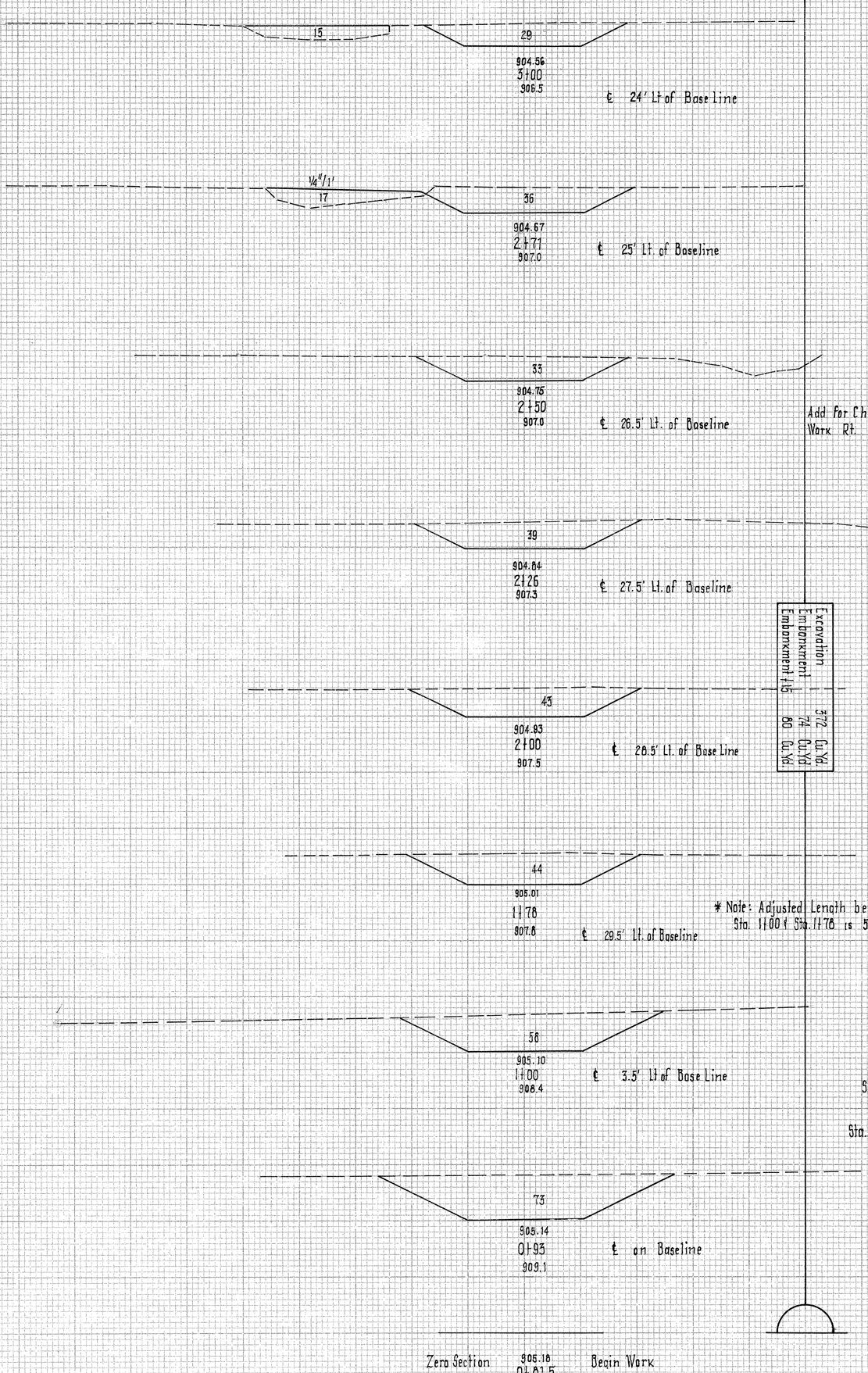


SECTION ON ℄ OF STRUCTURE
Scale: 1"=10'-0"

Design Data
Drainage Area: 37 Acres
Q: 50 c.f.s.

STRUCTURE STA. 541+00

Channel X-Sections Structures Sta. 541+00 Sheet 1 of 2



End Area		Cu. Yd.	
Cut	Fill	Cut	Fill
29	15		
		35	17
36	17		
		27	7
33	0		
		4	0
		32	0
38	0		
		40	0
43	0		
		36	0
44	0		
		96	0
56	0		
		17	0
Sta. 0+93 73	0		
		16	0
Sta. 0+18.15 0	0		

Add for Channel Work Rt.

Excavation	372 Cu. Yd.
Embankment	74 Cu. Yd.
Embankment +15	80 Cu. Yd.

* Note: Adjusted Length between Sta. 1+00 & Sta. 1+76 is 52'.

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2	OHIO	

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FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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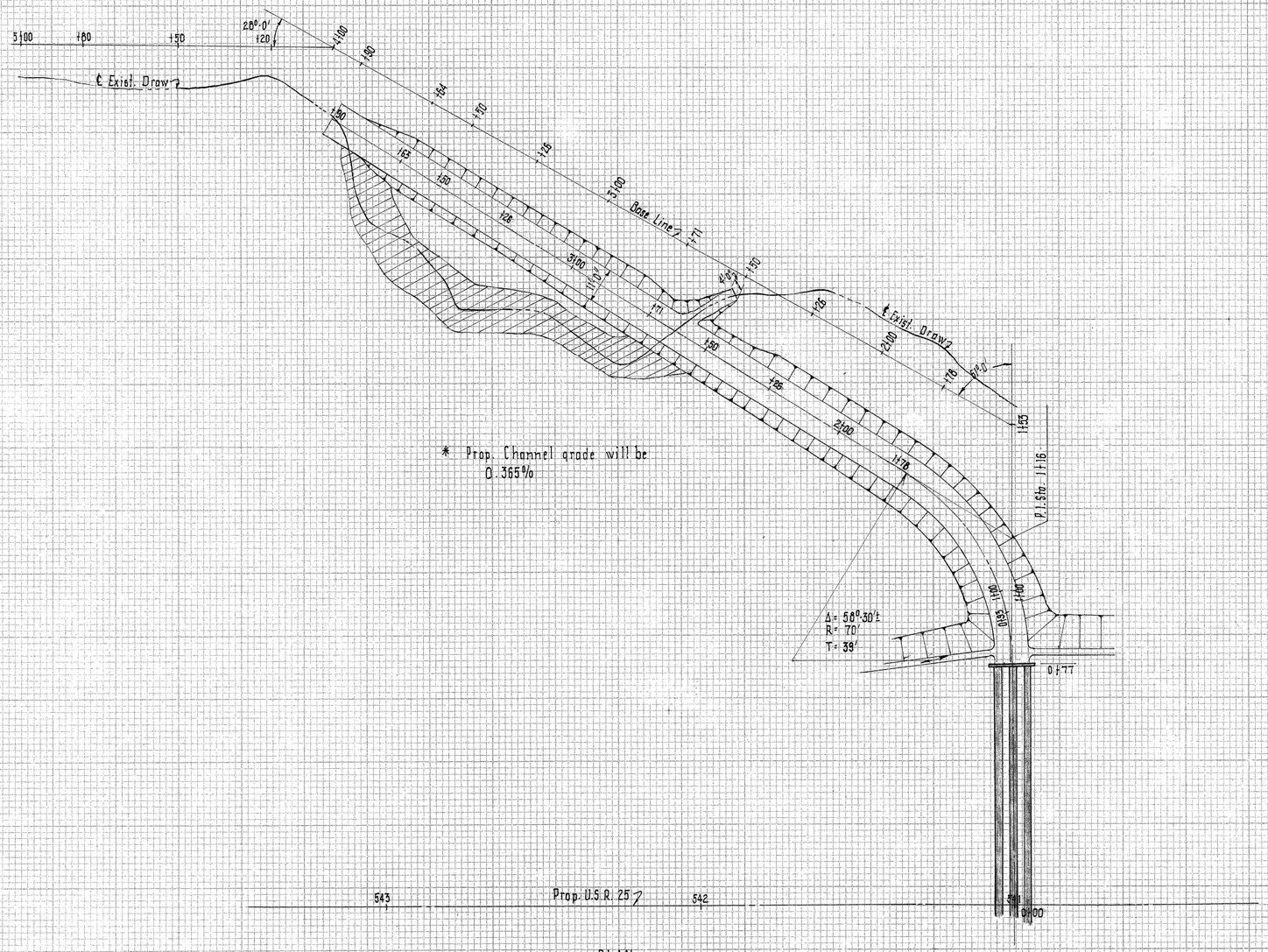
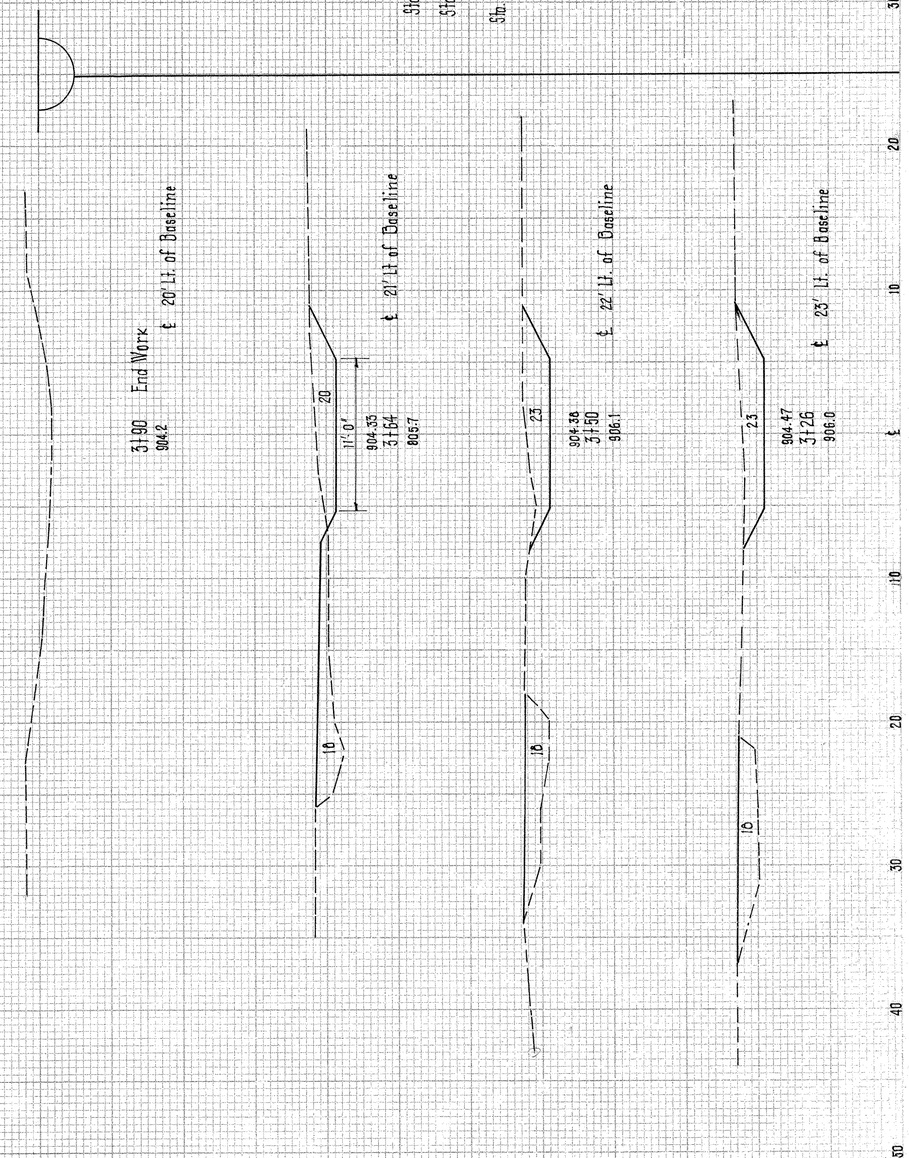
End Area		Cu. Yd.	
Cut	Fill	Cut	Fill
0	0	0	0
20	18	10	9
23	16	11	9
23	18	21	16
29	15	25	16



* Prop. Channel grade will be 0.365%

PLAN
Channel Work for Structure Sta. 541+00
Scale: 1" = 20'-0"



Channel X-Sections Structure Sta. 541+00 Sheet 2 of 2

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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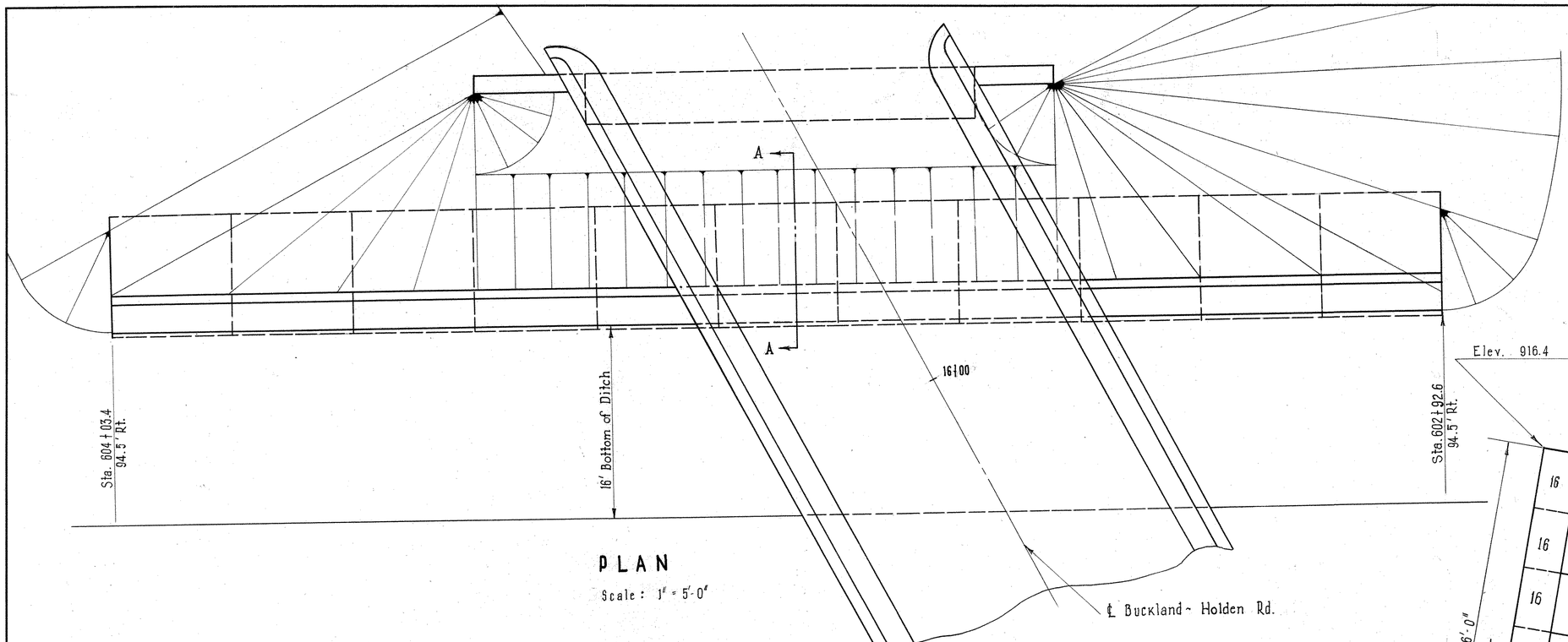
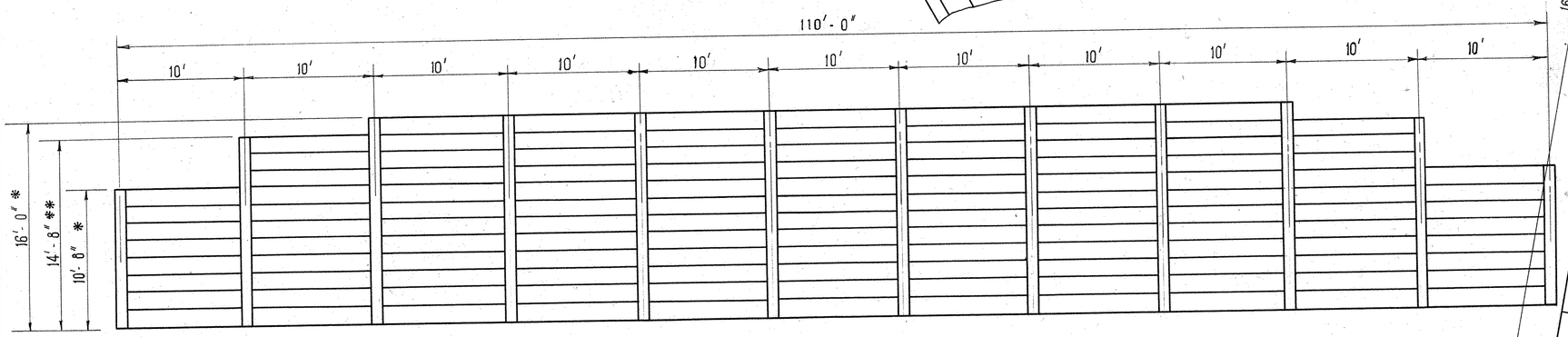
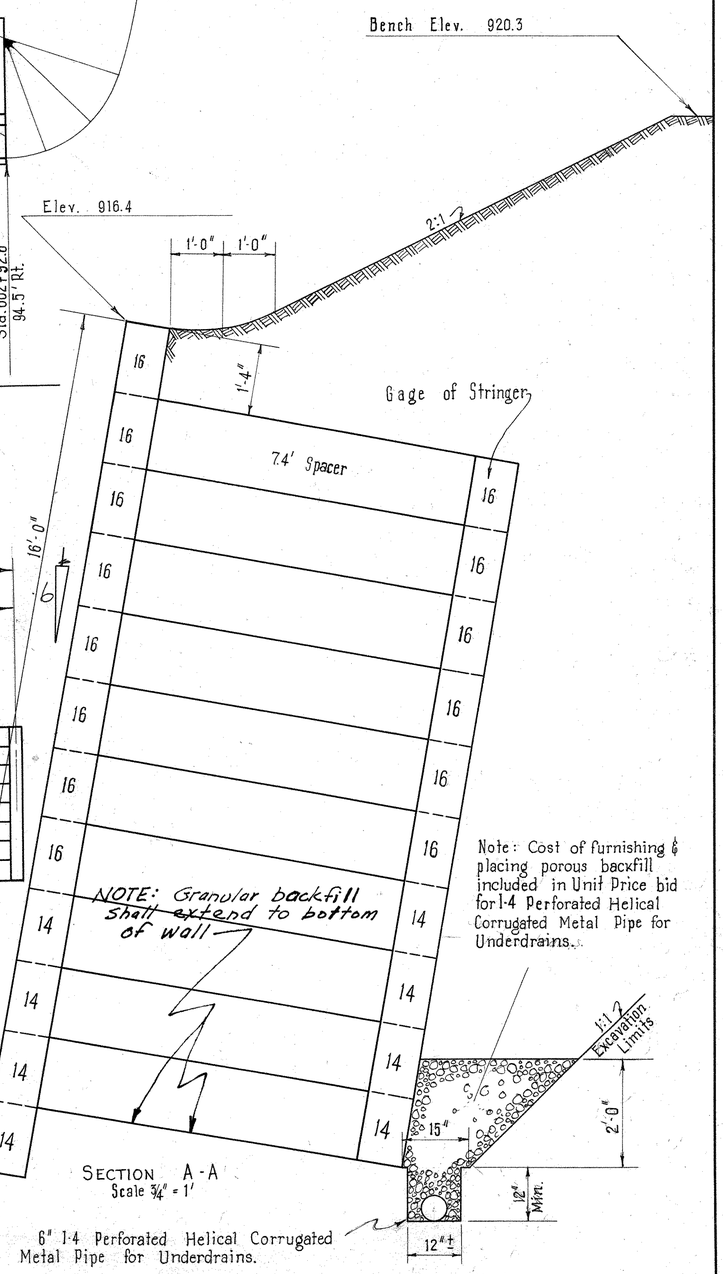


PLAN
Scale: 1" = 5'-0"



* Parallel to Face

ELEVATION
Scale: 1" = 5'-0"



Note: Cost of furnishing & placing porous backfill included in Unit Price bid for 1-4 Perforated Helical Corrugated Metal Pipe for Underdrains.

SECTION A-A
Scale 3/4" = 1'

ESTIMATED QUANTITIES

Note: Detail above based on Metal Cellular Retaining Wall.

ITEM 1-17 Galvanized Metal Cellular Retaining Wall or Precast Reinforced Concrete cellular Retaining Wall. 1640 Sq.Ft.

CRIB WALL DETAIL ON BUCKLAND - HOLDEN ROAD

STRUCTURE STA. 684 + 00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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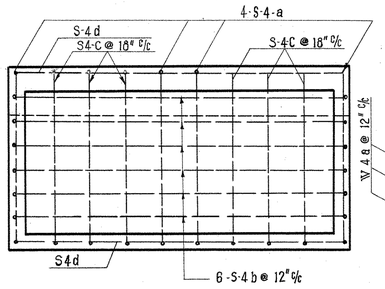
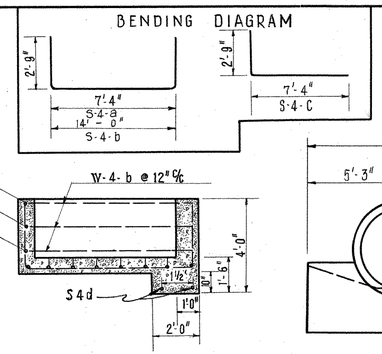
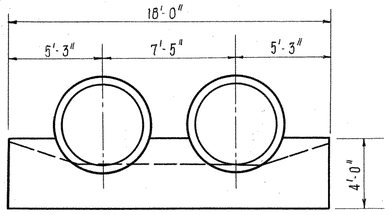
AUGLAIZE COUNTY
AUG-25-5.05



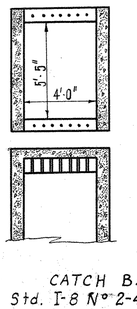
Drop Inlet Detail
Detail for the Placing of Reinforcing Bars for the drop inlet construction.
Scale: 1" = 3'-0"



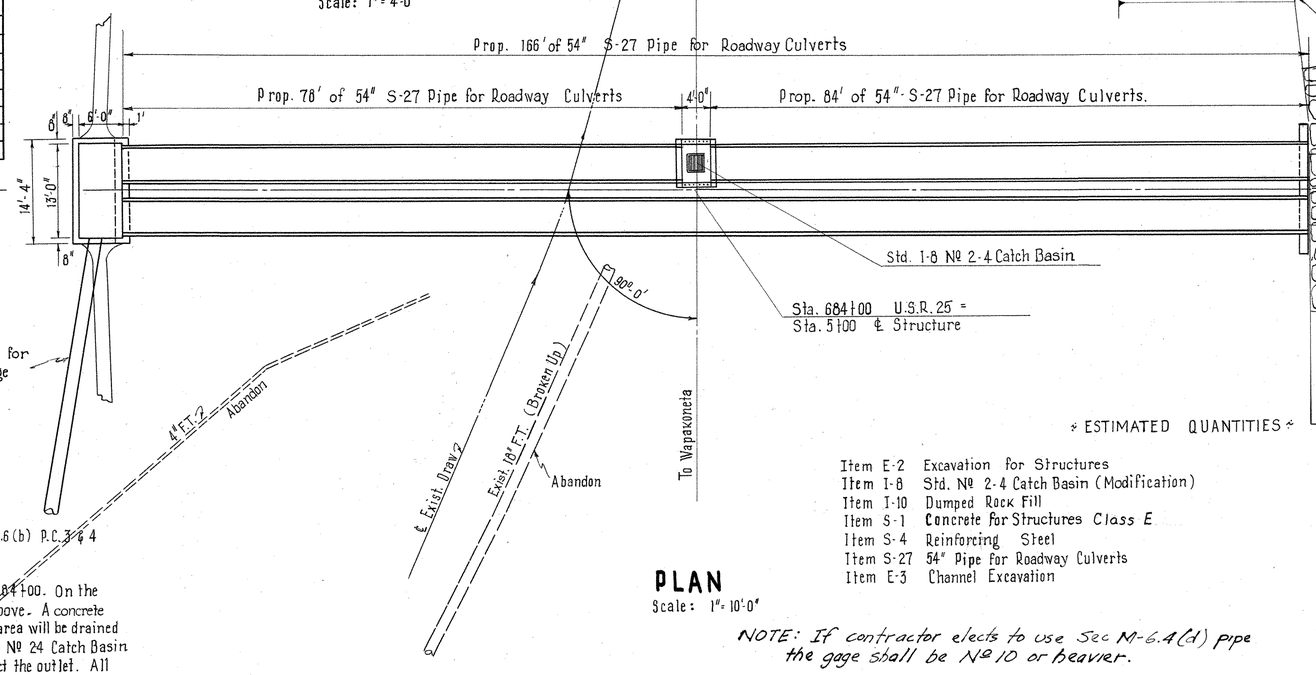


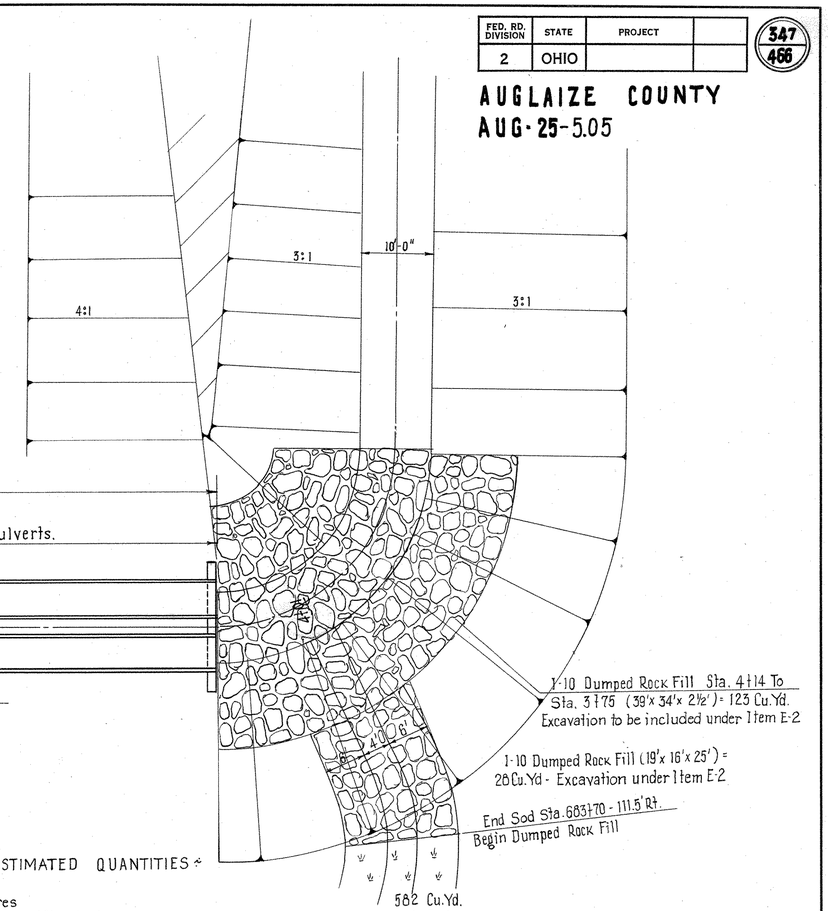
ENDWALL DETAIL
Concrete endwall modified for Twin 54" S-27 Pipe as shown above Standard drawing P.C.-4 used as basic design
Scale: 1" = 4'-0"

Steel List					
Ref. No.	No. of Bars	Size	Length	Weight	Remarks
S4a	4	½"ϕ	15'-10"	37.0	Bent
S4b	6	½"ϕ	19'-6"	78.0	Bent
S4c	6	½"ϕ	10'-1"	40.5	Bent
S4d	4	½"ϕ	14'-0"	37.9	Straight
W4a	3	½"ϕ	14'-0"	28.0	Str.
W4b	6	½"ϕ	7'-4"	29.4	Str.
TOTAL				251.0	



CATCH BASIN DETAIL
Std. I-8 N° 2-4 Catch Basin modification consist of increasing the window length the Full Length of the catch Basin as shown above the breadth shall also be extended to accommodate the size of Pipe
Scale 1" = 4'-0"





CULVERT DATA
TYPE: Proposed 54" S-27 Pipe for Roadway Culverts Sec. M-6.6 (b) P.C. 3 & 4
SIZE: 78'-0" x 54"; 84'-0" x 54"; 166'-0" x 54"
SKEW: 0°-00'
WORK REQUIRED: Place Twin 54" S-27 Pipes at right angles to Sta. 684+00. On the inlet end place a 13'x 6' drop-inlet and construct as shown above. A concrete endwall shall be placed on the outlet end and the pipe and area will be drained by a 10' bottom channel connecting to an existing draw. A № 24 Catch Basin modified shall drain the median. Dumped rock Fill shall protect the outlet. All other work shall be done as shown.

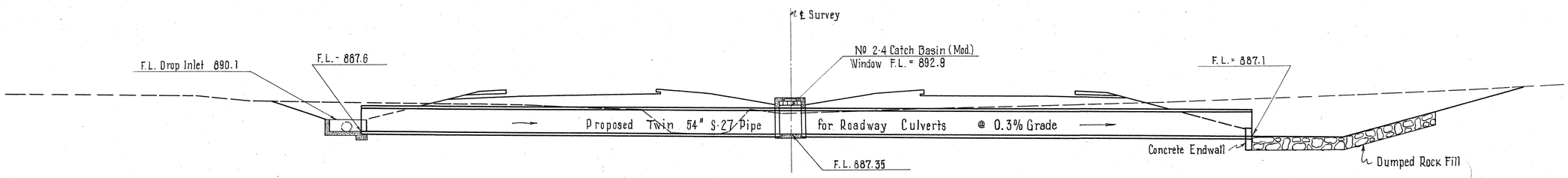
PLAN
Scale: 1" = 10'-0"

* ESTIMATED QUANTITIES *

Item E-2	Excavation for Structures	582 Cu.Yd.
Item I-8	Std. № 2-4 Catch Basin (Modification)	1 Each
Item I-10	Dumped Rock Fill	151 Cu.Yd.
Item S-1	Concrete for Structures Class E	7.7 Cu.Yd.
Item S-4	Reinforcing Steel	251 Lbs.
Item S-27	54" Pipe for Roadway Culverts	328 Lin.Ft.
Item E-3	Channel Excavation	2656 Cu.Yd.

NOTE: If contractor elects to use Sec M-6.4(d) pipe the gage shall be № 10 or heavier.

Datum Elev. 920.00

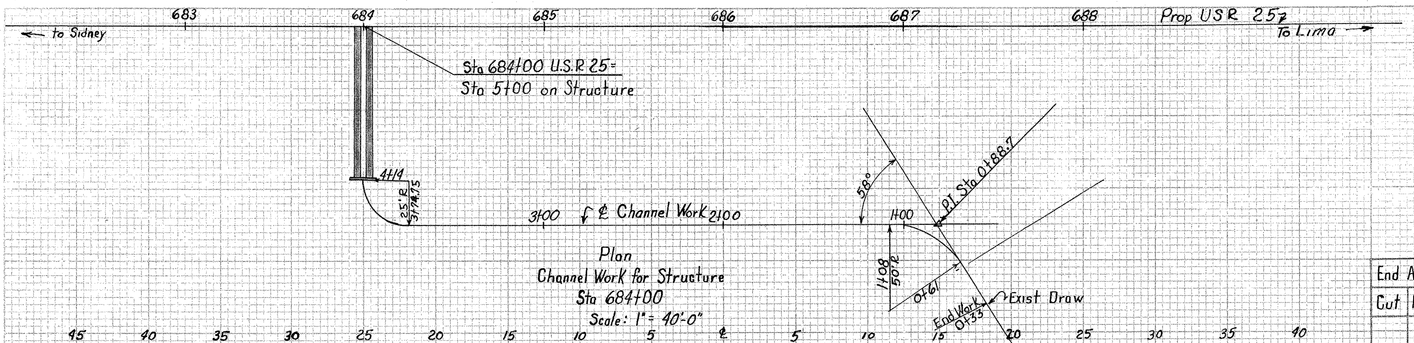


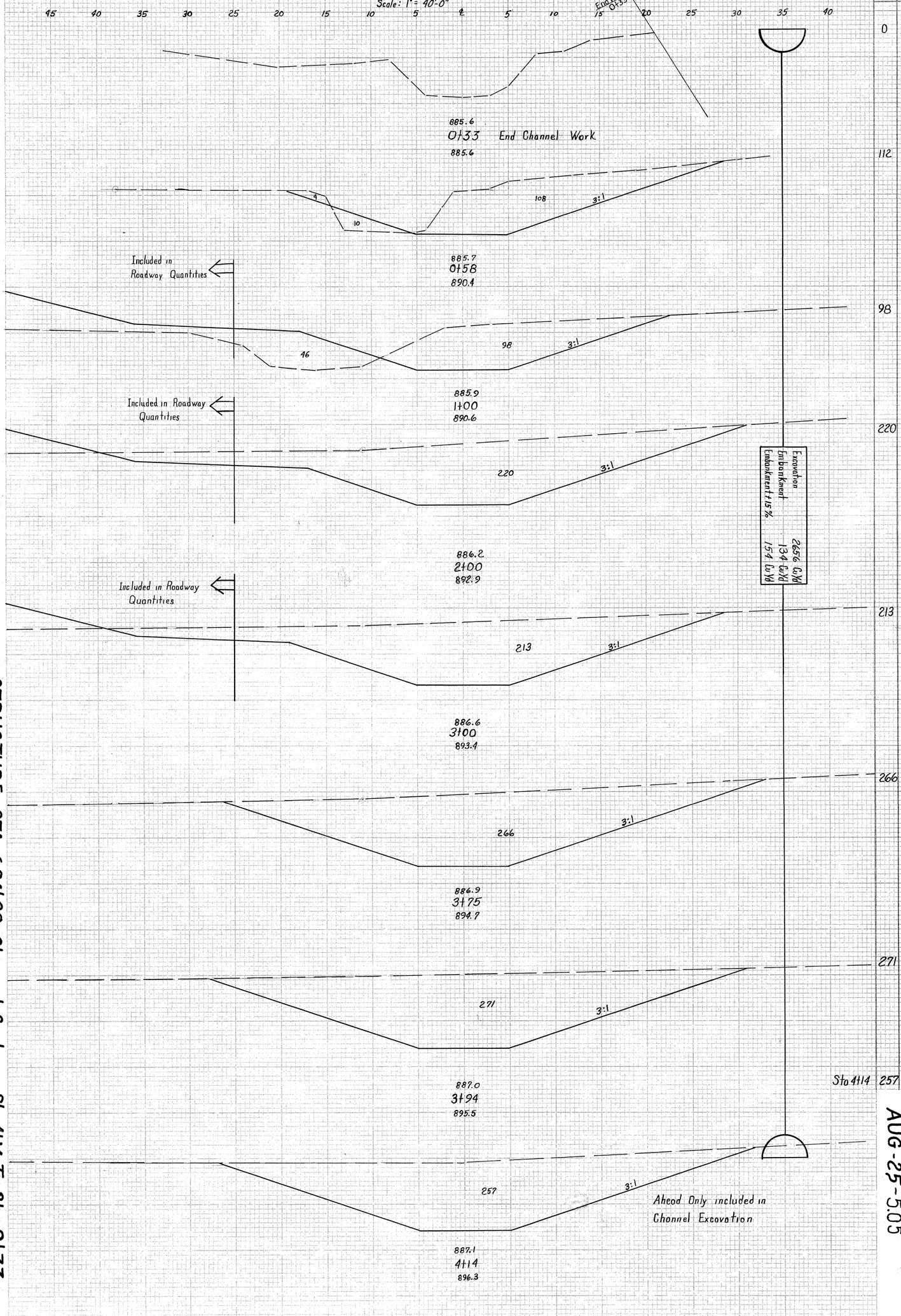
SECTION ON ℄ STRUCTURE
Scale 1" = 10'-0"

* DESIGN DATA *

Drainage Area:	271 Acres
Q	144 c.f.s.

STRUCTURE STA. 684+00





	End Area		Cu. Yd.	
	Cut	Fill	Cut	Fill
	0	0		
			52	5
	112	10		
			163	44
	98	46		
			589	85
	220	0		
			802	0
	213	0		
			665	0
	266	0		
			189	0
	271	0		
			196	0
Sta 4+14	257	0		

STRUCTURE STA. 684+00 Channel Sections Sta 4+14 To Sta 0+33

AUGLAIZE COUNTY
AUG-25-5.05

FED. RD. DIVISION 2 | STATE OHIO | PROJECT

549
466

STRUCTURE EXTENSION

U.S.R STA. 701 + 34.4

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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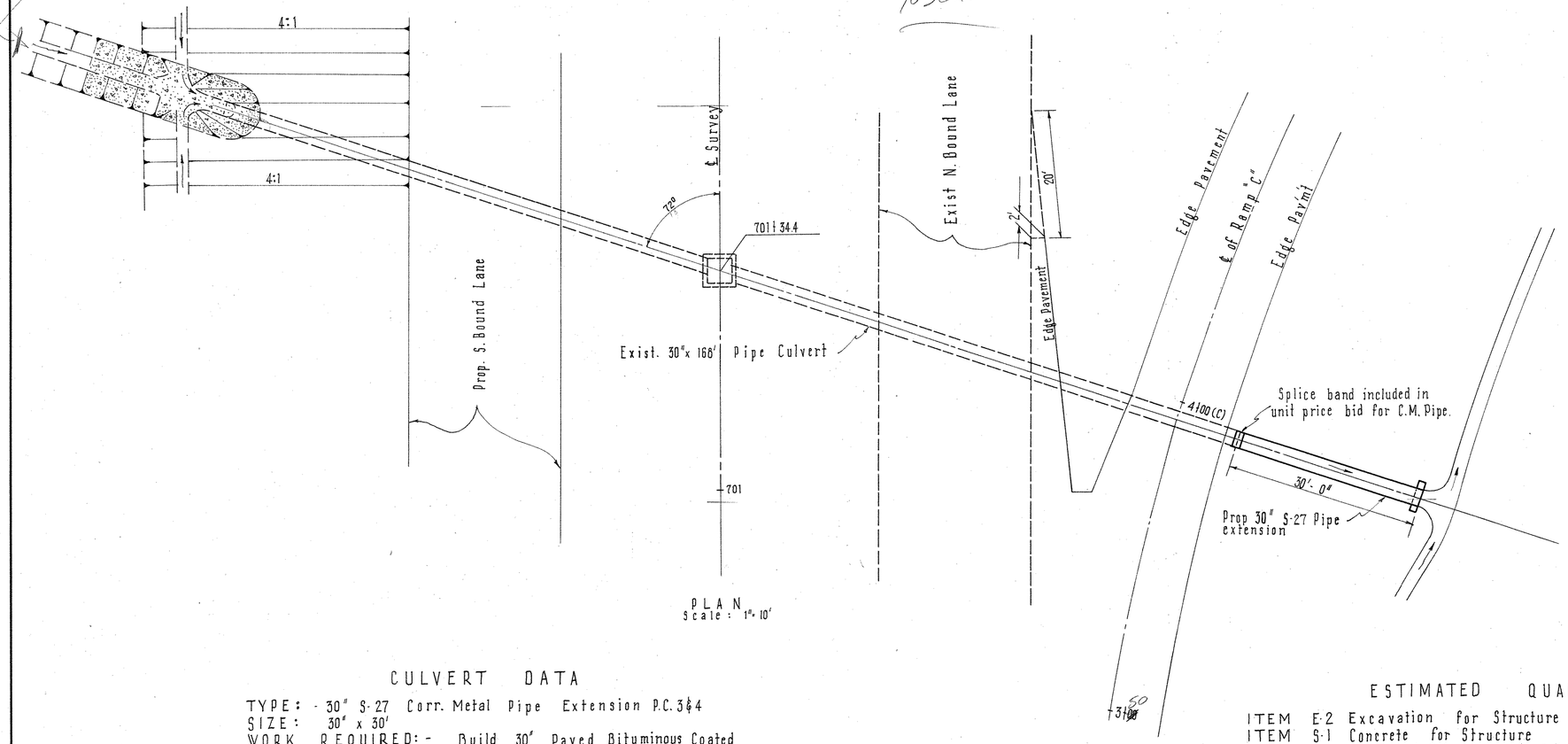
466

AUGLAIZE COUNTY
AUG-25-5.05

10 SCALE



PLAN
Scale: 1" = 10'

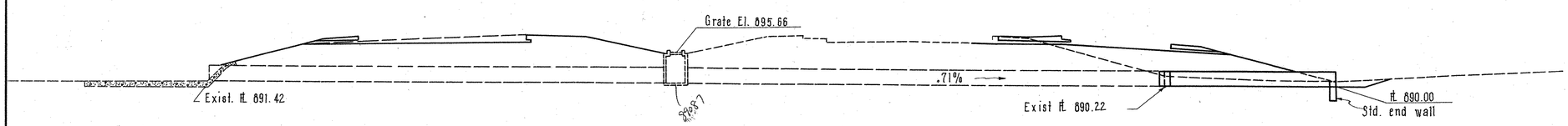
CULVERT DATA

TYPE: - 30" S-27 Corr. Metal Pipe Extension P.C. 3 ⅌ 4
SIZE: 30" x 30'
WORK REQUIRED: - Build 30' Paved Bituminous Coated Corr. Metal Pipe Sec. M-6.4 (d) Extension on RT end of existing Pipe Culvert. Sta. 701 + 34.4 U.S.R. 25, with metal splice band connection on Lt. and Std. End wall on Rt.

ESTIMATED QUANTITIES

ITEM E-2	Excavation for Structure	4 Cu. Yds.
ITEM S-1	Concrete for Structure	.51 Cu. Yds.
ITEM S-27	30" Paved Bituminous Coated Corrugated Metal Pipe Sect. M-6.4 (d)	30 Lin. Ft.

Datum 920.00



SECTION on ℄ (Projected)
Scale: 1" = 10'

Drainage Area = 20 Acres
Q = 34 C.F.S.

STRUCTURE EXTENSION U.S.R. STA. 701 + 34.4

STRUCTURE STA. 860 + 17.5 ON EXIST. U.S.R. 33

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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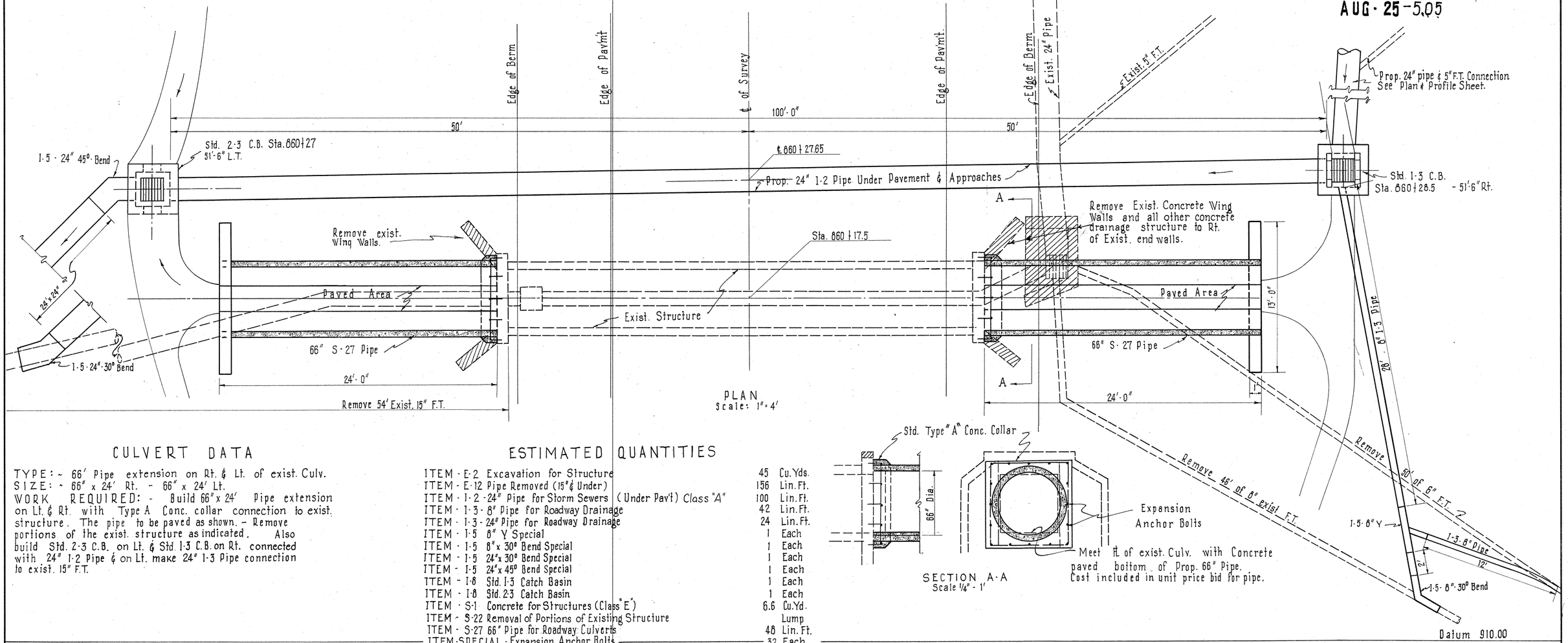
466

AUGLAIZE COUNTY
AUG-25-5.05

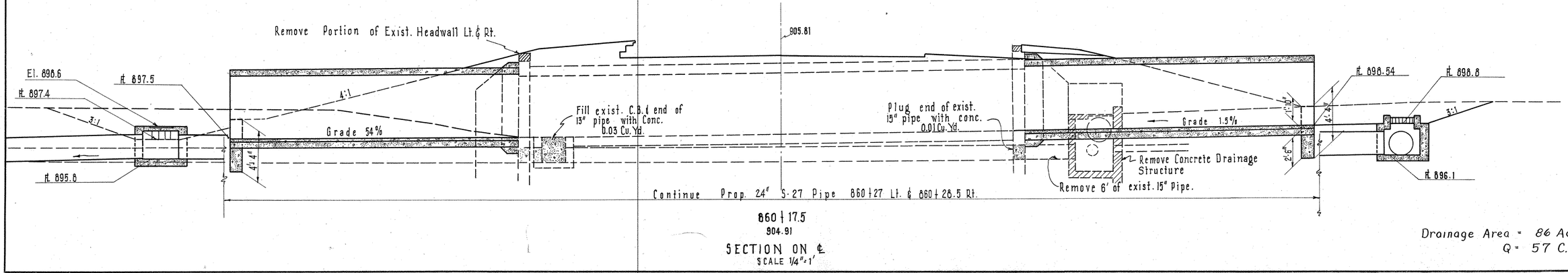


CULVERT DATA

TYPE:- 66' Pipe extension on Rt. & Lt. of exist. Culv.
SIZE:- 66" x 24' Rt. - 66" x 24' Lt.
WORK REQUIRED:- Build 66" x 24' Pipe extension on Lt. & Rt. with Type A Conc. collar connection to exist. structure. The pipe to be paved as shown. - Remove portions of the exist. structure as indicated. Also build Std. 2-3 C.B. on Lt. & Std. 1-3 C.B. on Rt. connected with 24" 1-2 Pipe & on Lt. make 24" 1-3 Pipe connection to exist. 15" F.T.

ESTIMATED QUANTITIES

ITEM - E-2	Excavation for Structure	45 Cu. Yds.
ITEM - E-12	Pipe Removed (15" & Under)	136 Lin. Ft.
ITEM - 1-2-24"	Pipe for Storm Sewers (Under Pav't) Class "A"	100 Lin. Ft.
ITEM - 1-3-8"	Pipe for Roadway Drainage	42 Lin. Ft.
ITEM - 1-3-24"	Pipe for Roadway Drainage	24 Lin. Ft.
ITEM - 1-5	8" Y Special	1 Each
ITEM - 1-5	8" x 30° Bend Special	1 Each
ITEM - 1-5	24" x 30° Bend Special	1 Each
ITEM - 1-5	24" x 45° Bend Special	1 Each
ITEM - 1-8	Std. 1-3 Catch Basin	1 Each
ITEM - 1-8	Std. 2-3 Catch Basin	1 Each
ITEM - S-1	Concrete for Structures (Class "E")	6.6 Cu. Yd.
ITEM - S-22	Removal of Portions of Existing Structure	Lump
ITEM - S-27	66" Pipe for Roadway Culverts	48 Lin. Ft.
ITEM-SPECIAL	Expansion Anchor Bolts	32 Each



STRUCTURE STA. 860 + 17.5 ON EXIST. U.S.R. 33

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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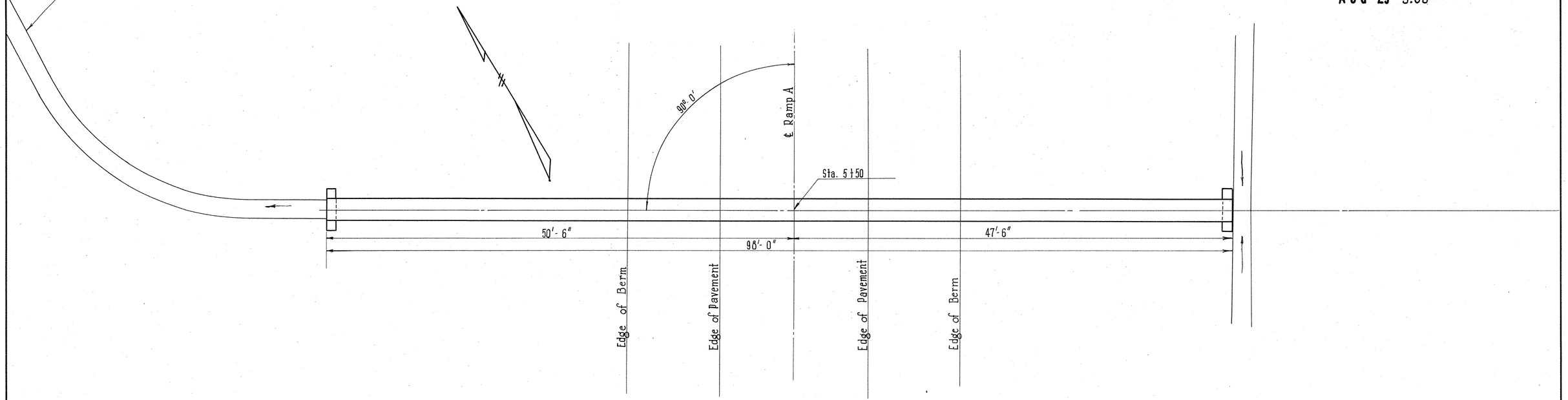
AUGLAIZE COUNTY
AUG-25-5.05

PROPOSED U.S.R. 25 & EXISTING U.S.R. 33 INTERCHANGE RAMP "A"
STRUCTURE STA. 5+50



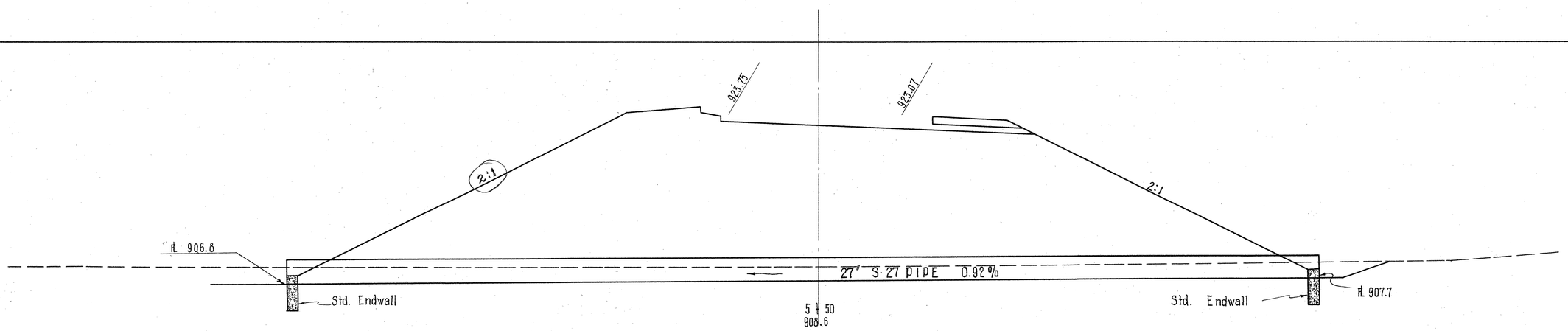
CULVERT DATA

TYPE: - S-27 Pipe, P.C. 3℄4
SIZE: - 27" x 98'-0"
WORK REQUIRED: Build 27" x 98'-0" S-27 Pipe Culvert at Angles Sta. 5+50(A) With Std. endwalls Lt. and Rt. Outlet of Structure on Lt. to be connected with open ditch to Sta. 334+00 as shown.

ESTIMATED QUANTITIES

ITEM	E-2	Excavation for Structures.		25 Cu.Yds.
ITEM	S-1	Concrete for Structure	Class "E"	0.94 Cu.Yds.
ITEM	S-27	27" For Roadway Culvert. Sec. M-6.6(b) or Sec. M-6.6(b)		98 Lin.Ft.

PLAN
Scale: 1"=5'



SECTION
Scale: 1"=5'

PROPOSED U.S.R. 25 & EXISTING U.S.R. 33 INTERCHANGE RAMP "A" ~ STRUCTURE STA. 5+50

STRUCTURE STA. 4+25 RAMP "B" ~ INTERCHANGE EXIST U.S.R. 33 & PROPOSED U.S.R. 25

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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AUGLAIZE COUNTY
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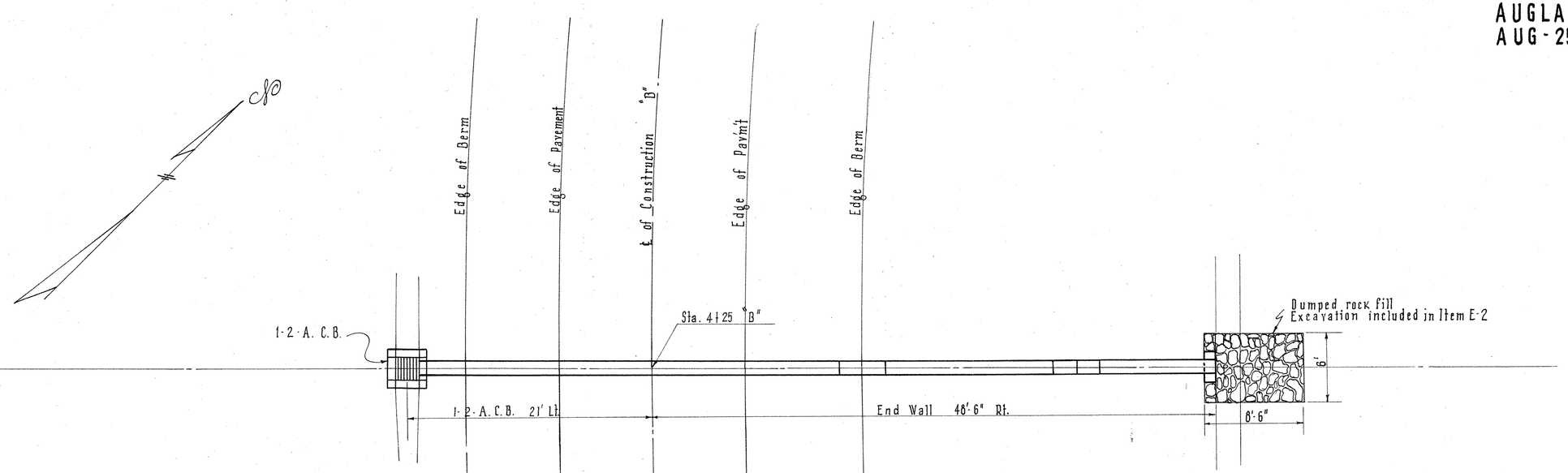


PLAN
Scale: 1"-5'-0"

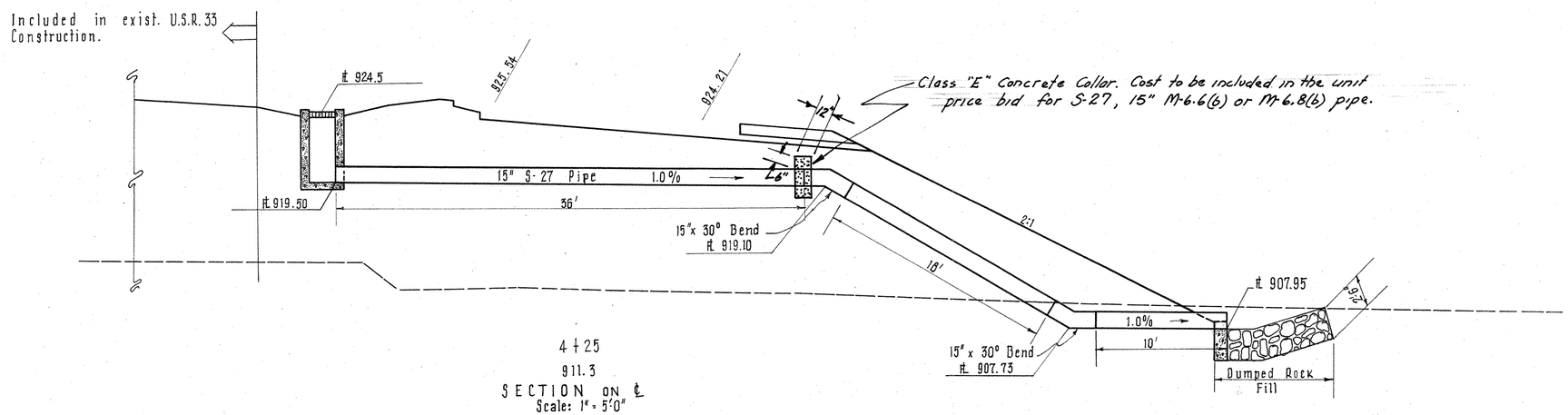
CULVERT DATA

TYPE: 15" S-27 Pipe ~ P.C. 3 & 4
SIZE: 15" x 64'
WORK REQUIRED: ~ Build 15" S-27 Pipe Culvert Sta. 4+25 "B" at 90° to ℄. With 1-2-A. C.B. on Lt. & Std. Concrete Endwall on Rt. Provide 2-15"x 30° Bends and Dumped Rock Fill as indicated on Outlets End for Bank Protection.

ESTIMATED QUANTITIES

ITEM	E-2	Excavation for Structure	9 Cu.Yds.
ITEM	I-6	Std. I-2-A Catch Basin	1 Each
ITEM	I-5	Pipe Specials 15"x 30° Bend, Sec. M-6.4(d)	2 Each
ITEM	I-10	Dumped Rock Fill.	5 Cu.Yds.
ITEM	S-1	Concrete for Structure Class "E"	0.26 Cu.Yds.
ITEM	S-27	Pipe for Roadway Culvert (15") Sec. M-6.8(b) or Sec. M-6.6 (b)	36 Lin.Ft.
ITEM	S-27	15" Pipe for Roadway Culverts, Sec. M-6.4(d)	28 Lin.Ft.

Datum 935.0



4+25
911.3
SECTION on ℄
Scale: 1"=5'-0"

STRUCTURE STA. 4+25 RAMP "B" INTERCHANGE EXIST. U.S.R. 33 & PROPOSED U.S.R. 25

STRUCTURE STA. 4+25 RAMP "C" INTERCHANGE EXIST. U.S.R. 33 & PROPOSED U.S.R. 25

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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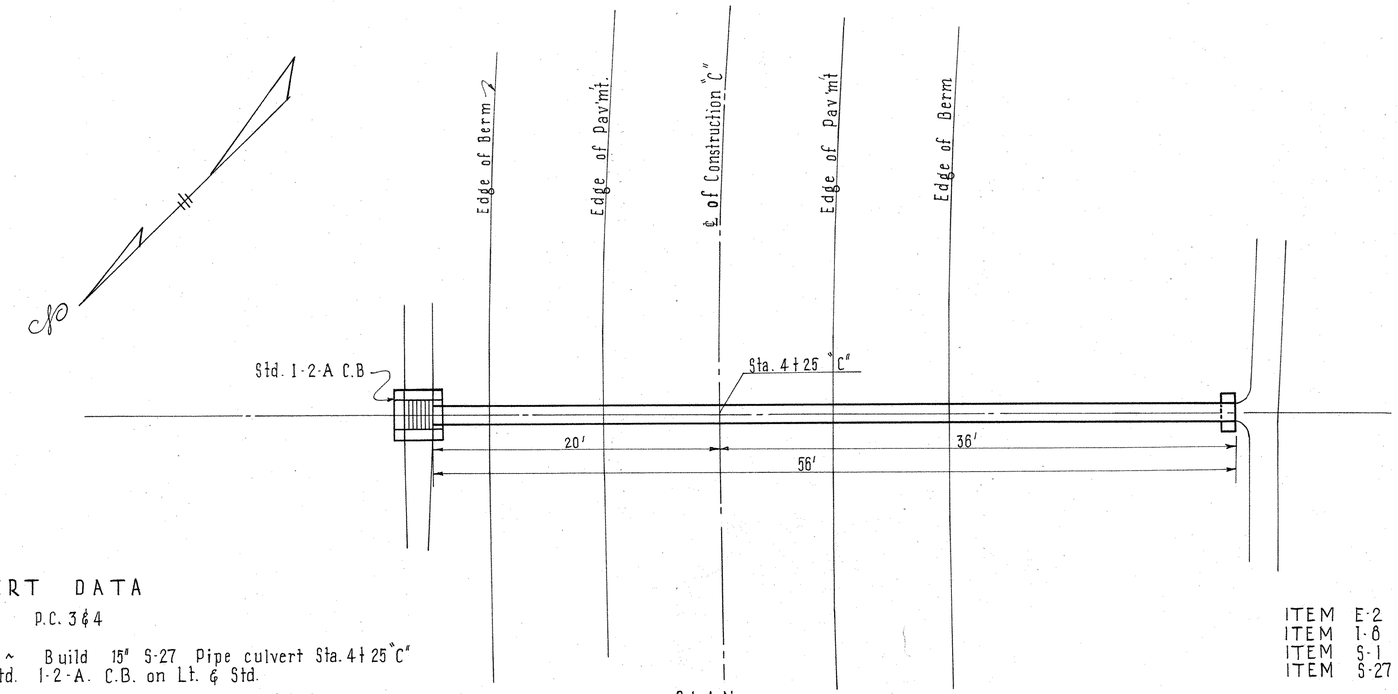
AUGLAIZE COUNTY
AUG-25-5.05



PLAN
SCALE: 1"= 5'

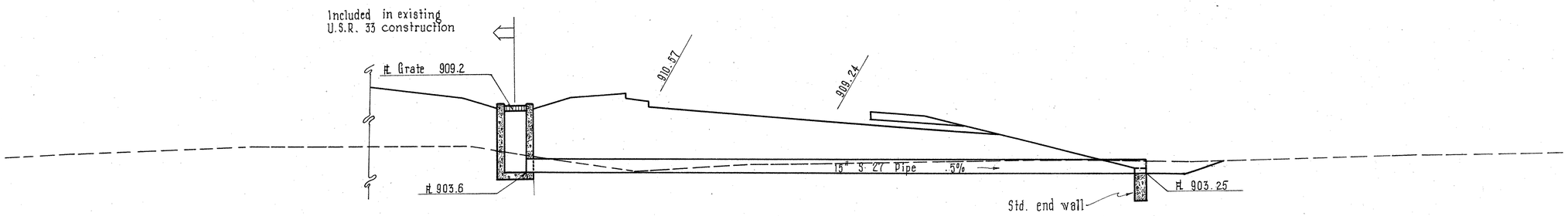
CULVERT DATA

TYPE: 15" S-27 Pipe P.C. 3℄4
SIZE: 15" x 56'
WORK REQUIRED: ~ Build 15" S-27 Pipe culvert Sta. 4+25 "C" 90° to ℄ and with Std. 1-2-A. C.B. on Lt. ℄ Std. concrete end wall on Rt.

ESTIMATED QUANTITIES

ITEM	E-2	Excavation for Structure	7 Cu. Yds.
ITEM	1-6	Std. 1-2-A. Catch Basin	1 Each
ITEM	S-1	Concrete for Structure Class "E"	0.26 Cu. Yds.
ITEM	S-27	15" Pipe for Roadway Culvert. Sec. M-6.6 (b) or Sec. M-6.6 (b)	56 Lin. Ft.

Datum 920.00



4+25
904.2

SECTION ON ℄
Scale 1"= 5'

STRUCTURE STA. 4+25 RAMP "C" INTERCHANGE EXIST. U.S.R. 33 & PROPOSED U.S.R. 25

STRUCTURE STA. 12+25(A) RAMP (A) - S.R. 67 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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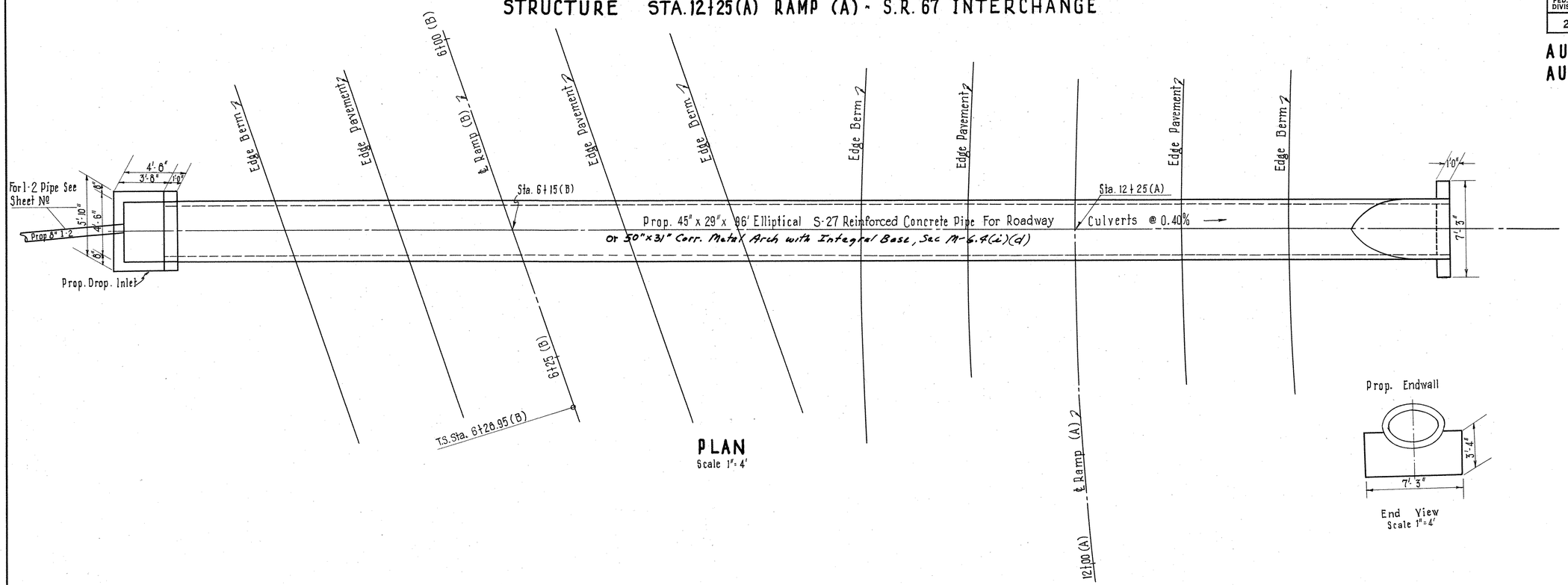
AUGLAIZE COUNTY
AUG-25-5.05

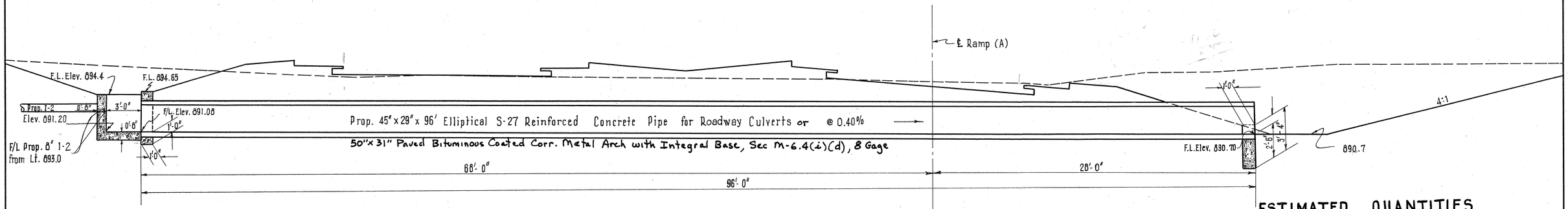


PLAN
Scale 1" = 4'

End View
Scale 1" = 4'

Datum: 905.0

Datum 905.0



SECTION ON ℄ OF STRUCTURE
Scale 1" = 4'

CULVERT DATA

TYPE: 45" x 29" - S-27 Elliptical Pipe or 50"x31" Corr. Metal Arch P.C. 3 & 4
SIZE: 45" x 29" x 96' or 50"x31"x96'
WORK REQUIRED: Construct Pipe For Roadway Culverts at Right Angles to Sta. 12+25 (A) With Drop Inlet 69.5' Lt. & Standard Concrete End Wall 28' Rt. as Shown.

Drainage Area = 34 Acres
Q = 35 c.f.s.

ESTIMATED QUANTITIES

ITEM E-2	Excavation for Structures	117	Cu. Yds.
ITEM S-1	Concrete for Structures Class "E"	2.8	Cu. Yds.
ITEM S-27	Elliptical Reinforced Concrete Pipe. For Roadway Culverts 45" x 29", or Paved Bituminous Coated Corrugated Metal Arch with Integral Base, Sec M-6.4(i)(d) 8 Gage, 50"x31"	96	Lin. Ft.

Drainage Area = 34 Acres
Q = 35 C.F.S.

STRUCTURE STA. 12+25(A) RAMP (A)

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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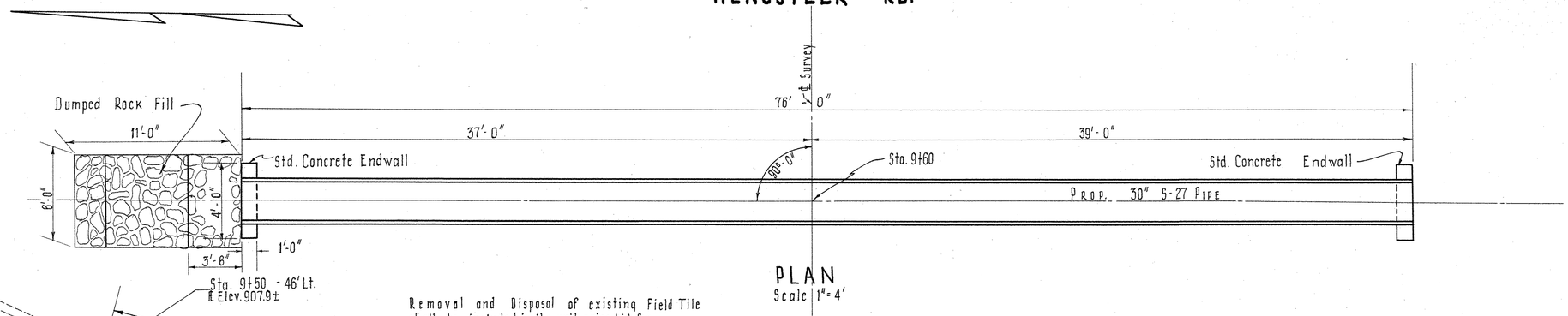
466

AUGLAIZE COUNTY
AUG-25-5.05

STRUCTURE STA. 9+60
HENGSTLER RD.



PLAN
Scale 1"=4'

Removal and Disposal of existing Field Tile shall be included in the unit price bid for Item 1-2 Storm Sewers Class "A" under pavement.

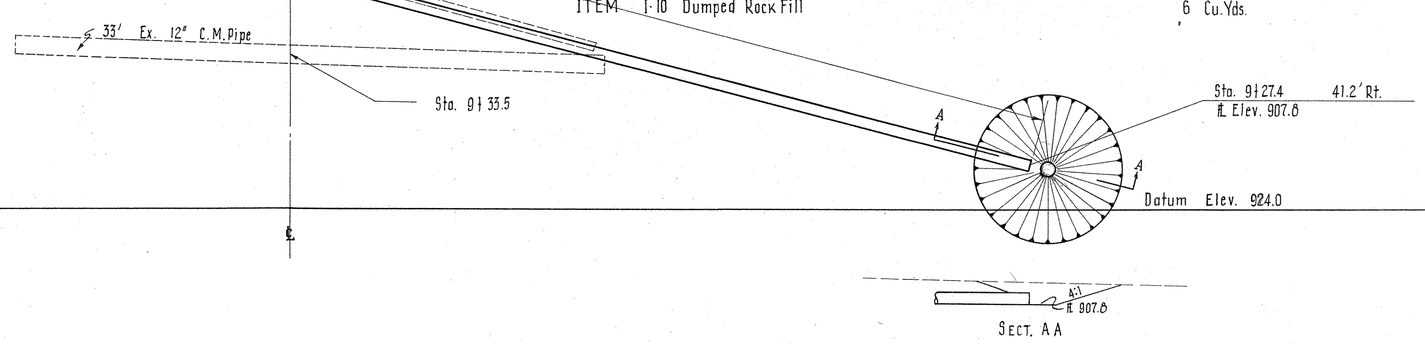
CULVERT DATA

TYPE: 30" S-27 Pipe Culvert, P.C. 3 & P.C. 4
SIZE: 30" x 76'-0"
WORK REQUIRED: Remove 33' Existing 12" C.M. Pipe
Connect 90' of 6" I-2 pipe to existing 6" F.Tile and construct as shown.
Build 76' of 30" S-27 pipe at right angles at Sta. 9+60 with Std. Concrete Endwalls Right and Left as shown.
Place Dumped Rock Fill on Lt.

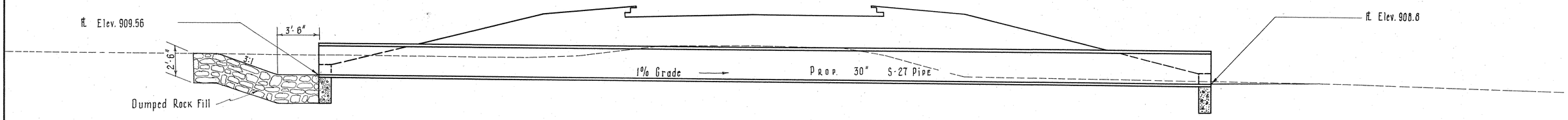
Note: Excavation for Dumped Rock Fill included in E-2 Excavation for Structures Quantity.

ESTIMATED QUANTITIES

ITEM	E-2	Excavation for Structures	33 Cu. Yds.
ITEM	E-12	Pipe Removed (15" and under)	33 Lin. Ft.
ITEM	I-2	Storm Sewers, Class "A" under pavement. (6")	90 Lin. Ft.
ITEM	S-1	Concrete for Structures Class "E"	1.0 Cu. Yds.
ITEM	S-27	30" Pipe for Roadway Culverts, Sec. M-6.8(b) or Sec. M-6.6(b)	76 Lin. Ft.
ITEM	I-10	Dumped Rock Fill	6 Cu. Yds.



SECT. A A



SECTION ON ℄ OF STRUCTURE
Scale 1"=4'

DRAINAGE AREA: = 19 ACRES
Q = 28 cfs.

STRUCTURE STA. 9+60 - HENGSTLER RD.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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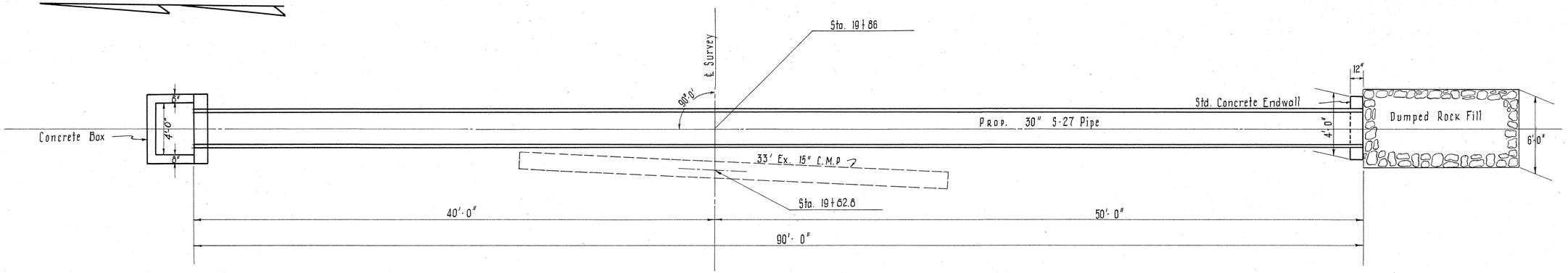
AUGLAIZE COUNTY
AUG - 25 - 5.05

STRUCTURE STA 19+86
HENGSTLER RD.



PLAN
Scale 1" = 4'

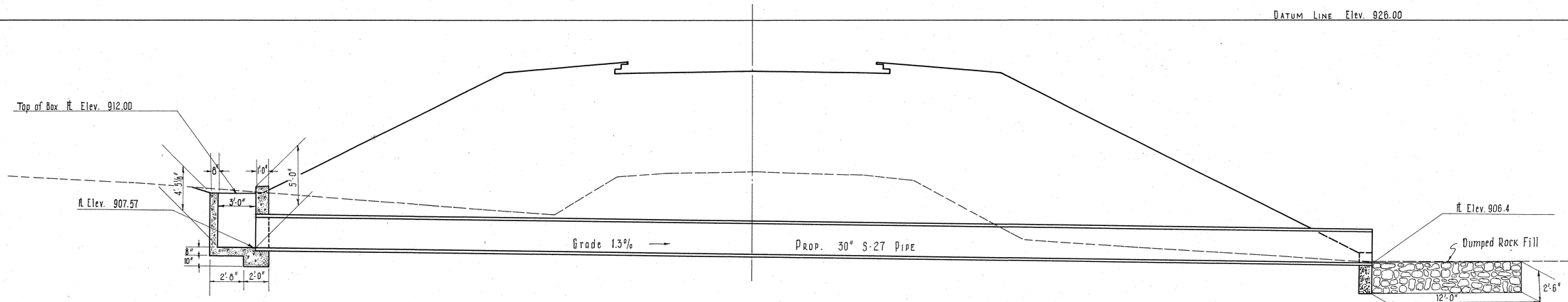
Note:
Excavation for Dumped Rock Fill included in E-2 Excavation for Structures Quantities.

CULVERT DATA

TYPE: 30" S-27 Pipe Culvert. P.C.3 & P.C.4
SIZE: 30" x 90'-0"
WORK REQUIRED: Remove for Storage 33' Ex. 15" C.M. Pipe
Build 90' of 30" S-27 pipe at right angles at Sta. 19+86
with Std. Concrete Endwall on Rt. and Concrete Box on Lt.
as shown. Place Dumped Rock Fill on Rt.

ESTIMATED QUANTITIES

ITEM	E-2	Excavation for Structures	84 Cu. Yds.
ITEM	E-12	Pipe Removed for Storage (15" & under)	35 Lin. Ft.
ITEM	S-1	Concrete for Structures Class E	3.4 Cu. Yds.
ITEM	S-27	Pipe for Roadway Culverts, Sec. M-6.8(b) or Sec. M-6.6(b)	90 Lin. Ft.
ITEM	1-10	Dumped Rock Fill	7 Cu. Yds.



SECTION ON ℄ OF STRUCTURE
Scale 1" = 4'

DRAINAGE AREA = 35 Acres
Q = 42 cfs

STRUCTURE STA. 19+86 - HENGSTLER RD.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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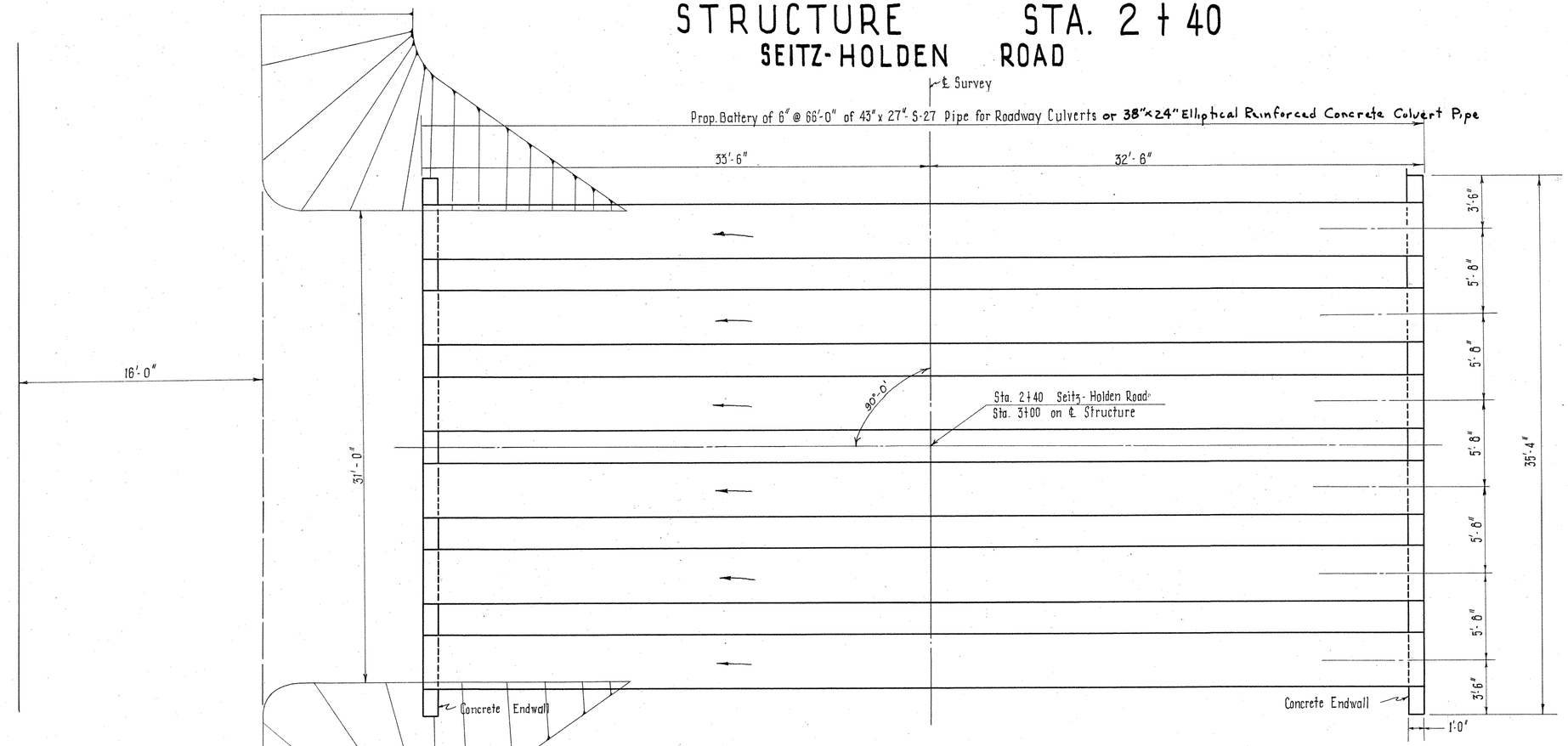
AUGLAIZE COUNTY

AUG - 25 - 5.05

STRUCTURE STA. 2 + 40

SEITZ-HOLDEN ROAD



PLAN

Scale: 1"= 4'-0"

ESTIMATED QUANTITIES

Item E-2	Excavation for Structure	216 Cu.Yd.
Item E-3	Channel Excavation	20 Cu.Yd.
Item S-1	Concrete for Structures Class "E"	7.5 Cu.Yd.
Item S-27	43"x 27" Paved Bituminous Coated Corrugated Metal Arch with Integral Base Sec. M 6.4 (i) & Sec. M 6.4 (d) or 38"x 24" Elliptical Reinforced Concrete Culvert Pipe Sec M-206.6(b)	396 Lin.Ft.

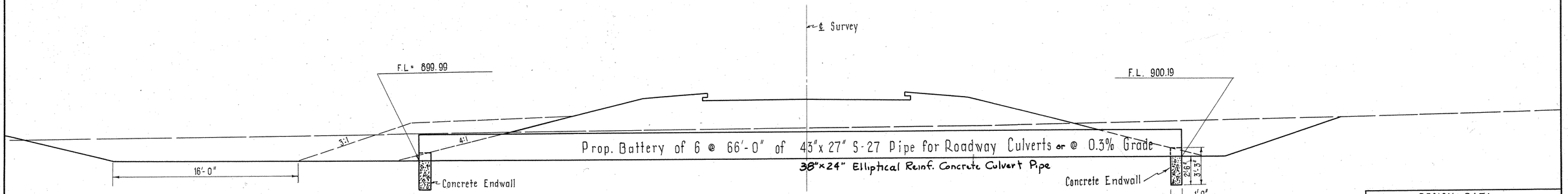
Datum Elev. 920.00

CULVERT DATA

TYPE: 43"x 27" S-27 Paved Bituminous Coated Corrugated Metal Arch with integral Base Sec. M-6.4 (i) & M 6.4 (d)

SIZE: Battery of 6 ; 43"x 27"x 66'-00" or 38"x 24" Elliptical Reinforced Concrete Pipe Sec M-206.6(b)

WORK REQUIRED: Prop. battery of 6 S-27 Pipes for Roadway Culverts to be placed at right angles to Sta 2+40 Seitz-Holden Road. Channel excavation shall be necessary at the left end.



SECTION ON ℄ OF STRUCTURE

Scale: 1"= 4'-0"

DESIGN DATA

Drainage Area: 248 Acres

Q: 137 c.f.s.

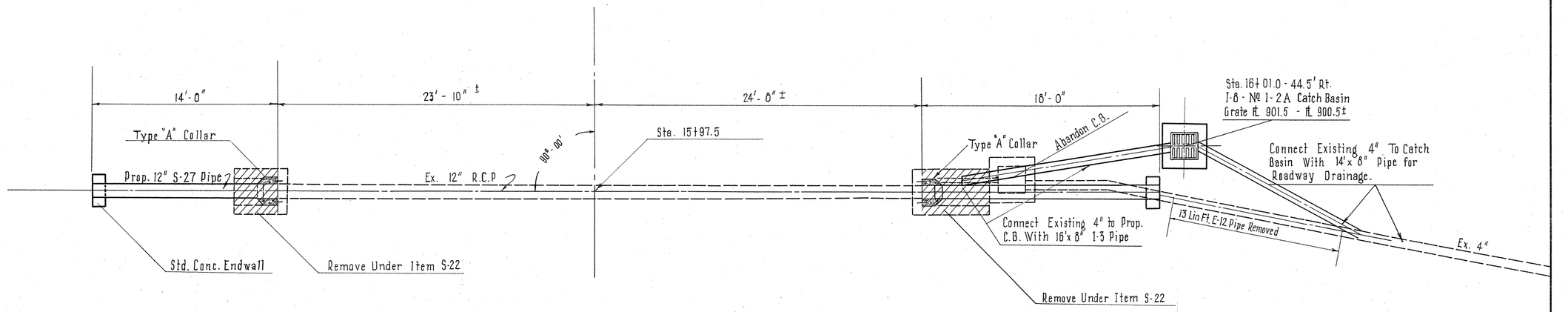
STRUCTURE STA. 2+40 SEITZ-HOLDEN ROAD

STRUCTURE STA. 15+97.5 ON EXIST. U.S.R. 25 NORTH OF NATIONAL ROAD

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

358
466

AUGLAIZE COUNTY
AUG - 25-5.05



PLAN

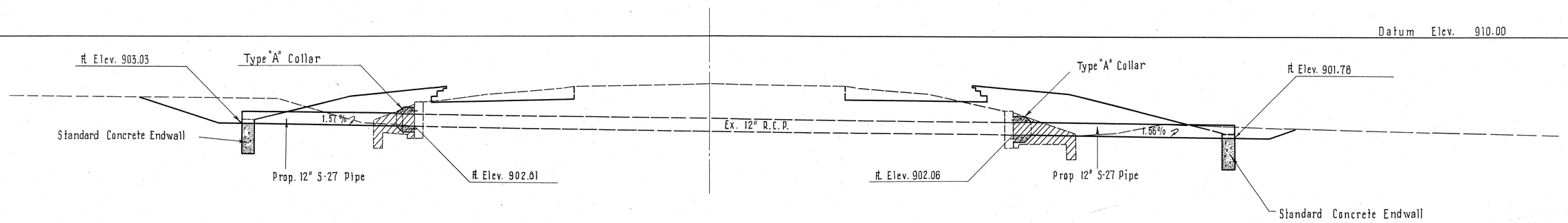
Scale: 1" = 4'-0"

CULVERT DATA

TYPE: 12" S-27 P.C. 3 & P.C.4
SIZE: 14'-0" x 12" ; 18'-0" x 12"
WORK REQUIRED: Remove Portions of Existing Structure Lt & Rt as shown in cross hatched area. Extend Existing 12" R.C.P. Lt. & Rt. as shown above with Type "A" Collar & Std. Conc. Endwall. Abandoned Existing Catch Basin on Rt. and Remove tile on Rt as shown. Construct Prop. I-8 № 1-2A C.B. on Rt. and connect to Ex. 7" tile as shown.

ESTIMATED QUANTITIES

ITEM E-2	Excavation for Structures	4	Cu.Yds.
ITEM E-12	Pipe Removed (15" and Under)	30	Lin.Ft.
ITEM I-3	8" Pipe for Roadway Drainage	30	Lin.Ft.
ITEM I-8	Std. № 1-2A Catch Basin	1	Each
ITEM I-16	Abandon Existing Catch Basin	1	Each
ITEM S-1	Concrete for Structures (Class "E")	0.73	Cu.Yd.
ITEM S-22	Removal of Portions of Existing Structures		Lump
ITEM S-27	12" Pipe for Roadway Culverts, (Sec. M-6.8(b) or Sec. M-6.6(b)	32	Lin.Ft.
ITEM SPECIAL	Expansion Anchor Bolts	8	Each



SECTION ON ℄ OF STRUCTURE

Scale: 1" = 4'-0"

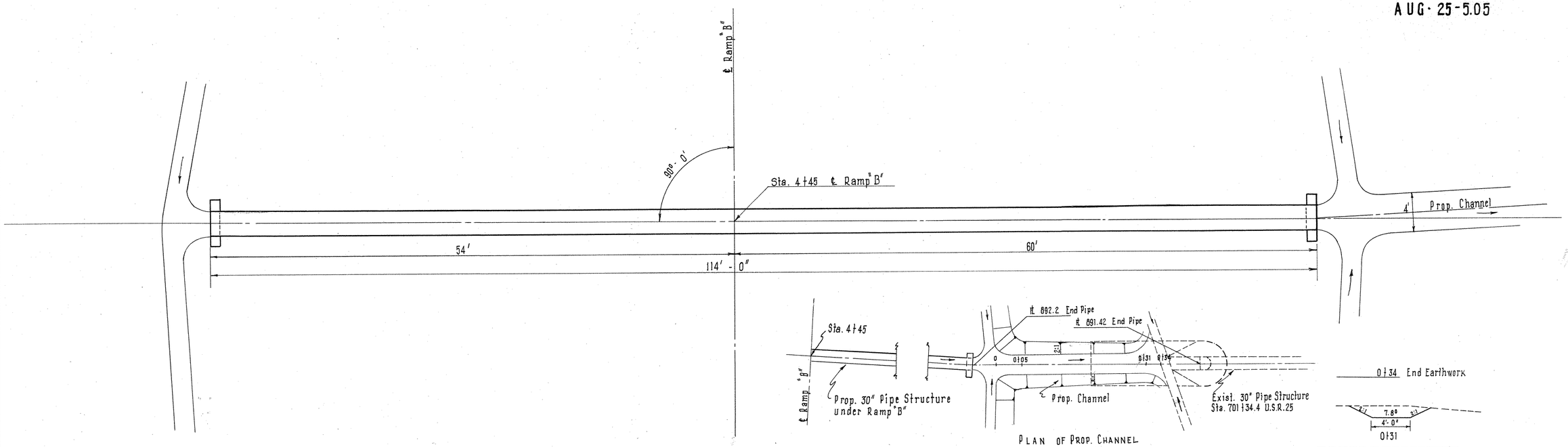
STRUCTURE STA. 15+97.5 ON EXIST. U.S.R. 25 NORTH OF NATIONAL ROAD

STRUCTURE STA. 4+45 RAMP "B" NATIONAL ROAD & PROP. U.S.R. 25 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

359
466

AUGLAIZE COUNTY
AUG-25-5.05



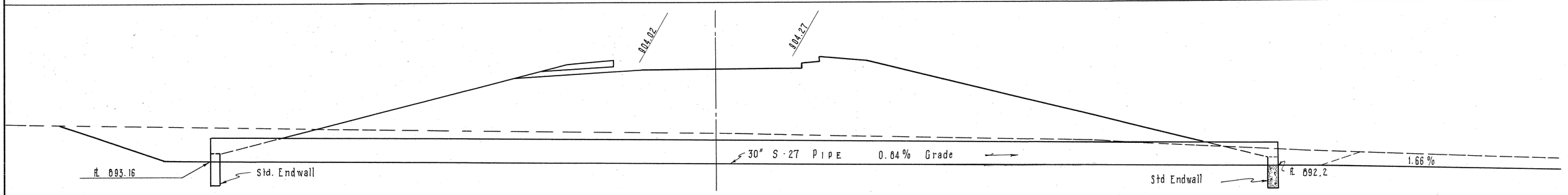
PLAN
Scale 1" = 5'

PLAN OF PROP. CHANNEL
Scale 1" = 10'

CHANNEL SECTIONS
Scale 1"-5'

12 Cu. Yds.

Datum 910.00



Section
Scale: 1" - 5'

CULVERT DATA

TYPE: 30" S-27 Pipe Structure (Std. Drwg) P.C.364)
SIZE: 30" x 114'
WORK REQUIRED: Build 30" Pipe structure with Std. Endwalls Lt & Rt. Excavate for Channel on Rt. Connecting Prop. & Existing Structures as shown.

ESTIMATED QUANTITIES

ITEM E-2	Excavation for Structure	61 Cu. Yds.
ITEM E-3	Channel excavation	12 Cu. Yds.
ITEM S-1	Concrete for Structure Class "E"	1.02 Cu. Yds.
ITEM S-27-30"	Pipe for Roadway Culverts *Sec M-6.8(b) or Sec M-6.6(b)*	114 Lin. Ft.

Drainage Area = 18 Acres
Q = 31 C.F.S.

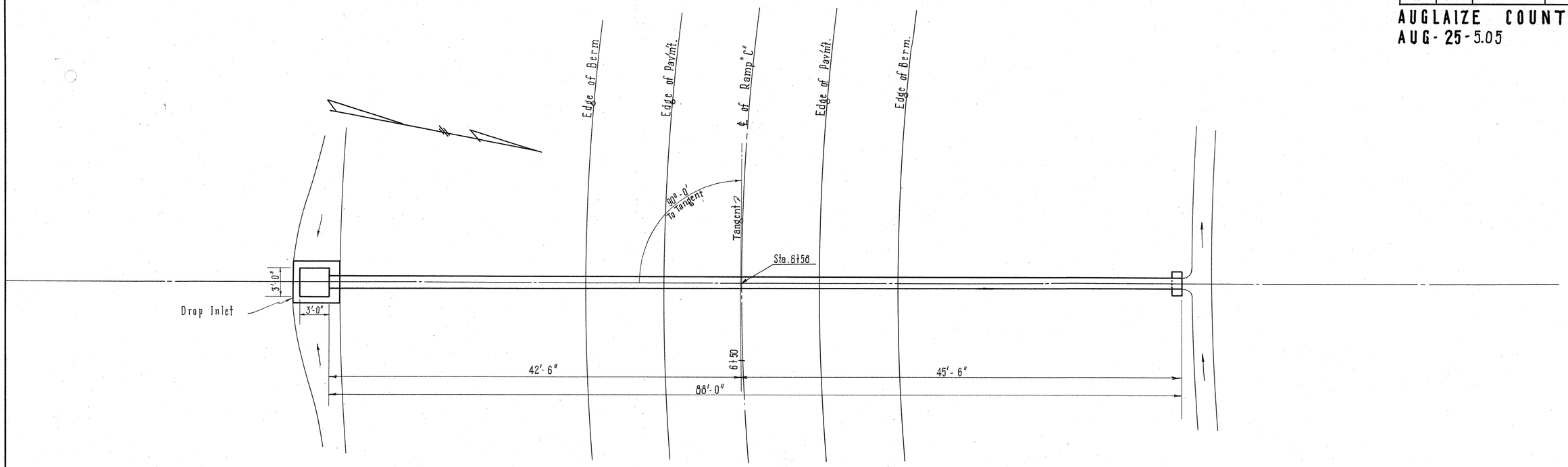
STRUCTURE STA. 4+45 RAMP "B" NATIONAL RD. & PROP. U.S.R. 25 INTERCHANGE

PROP. NATIONAL ROAD INTERCHANGE RAMP "C"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

360
466

AUGLAIZE COUNTY
AUG-25-5.05



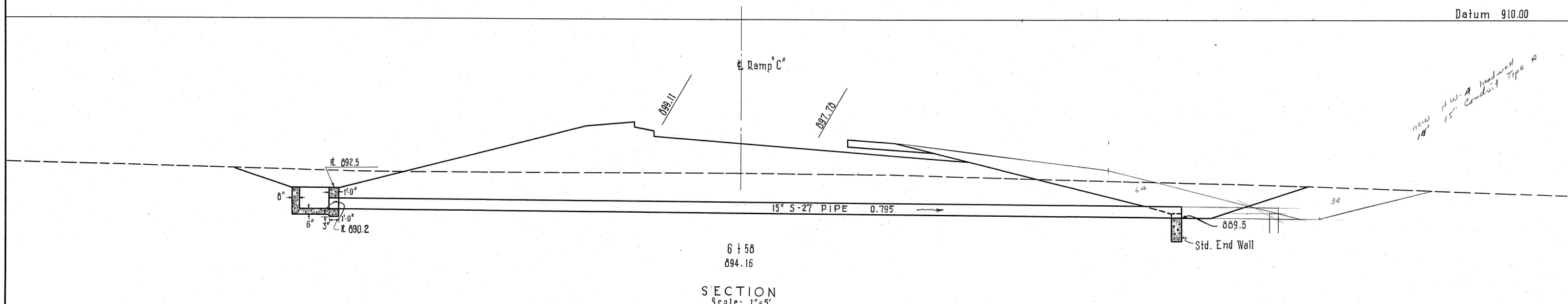
PLAN
Scale 1" = 5'

CULVERT DATA

TYPE ~ 15" S-27 Pipe ~ P.C. 3 ℄ 4
SIZE ~ 15" x 88'-0"
WORK REQUIRED - Build 15" - S-27 Pipe Culvert at Right Angles to Tangent at Sta. 6+58(C) with Drop Inlet on Lt. and Std. Endwall on Rt.

ESTIMATED QUANTITIES

ITEM E-2	Excavation for Structure	37	Cu. Yds.
ITEM S-1	Concrete for Structure Class "E"	1.48	Cu. Yds.
ITEM S-27	15" Pipe for Roadway Culvert *Sec M-6.8 (b) or Sec M-6.6 (b)*	88	Lin. Ft.



SECTION
Scale: 1" = 5'

STRUCTURE STA 6+58 PROP NATIONAL ROAD INTERCHANGE RAMP "C"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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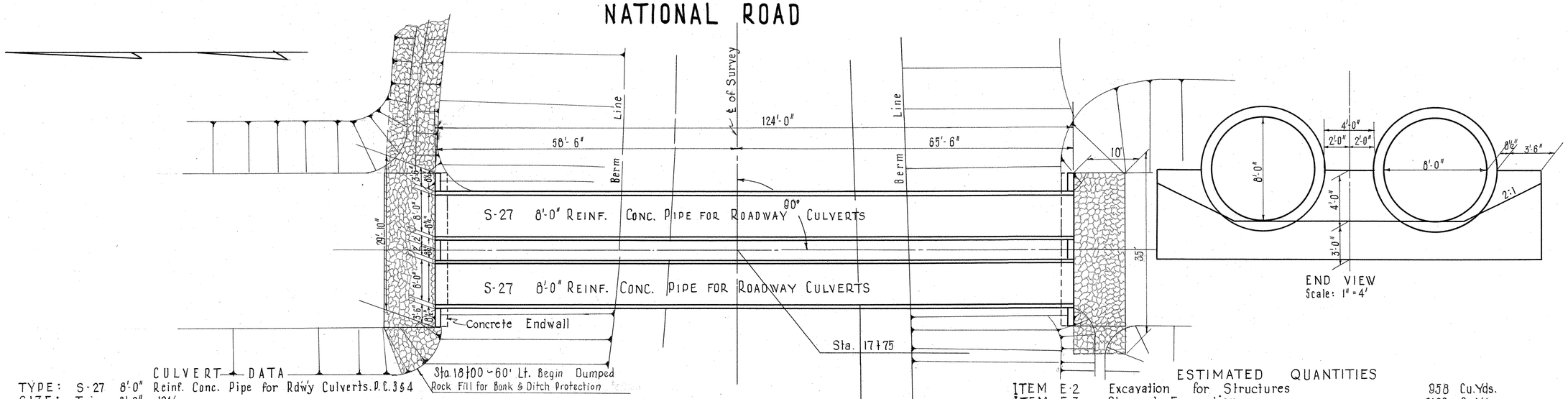
466

AUGLAIZE COUNTY
AUG-25-5.05

STRUCTURE AT STA. 17+75
NATIONAL ROAD



PLAN
Scale 1" = 10'

CULVERT DATA

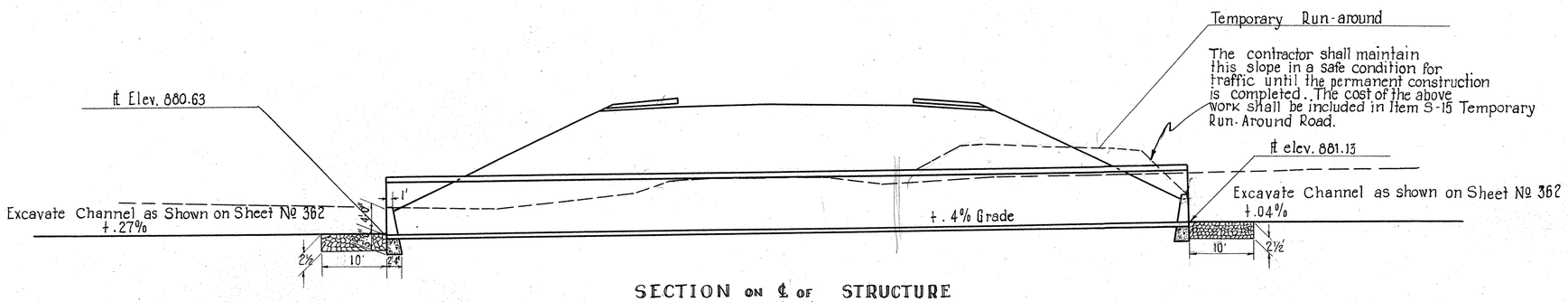
TYPE: S-27 8'-0" Reinf. Conc. Pipe for Rdw'y Culverts. P.C. 3 & 4
SIZE: Twin 8'-0" x 124'
WORK REQUIRED: Place Twin 8'-0" x 124' of S-27 Pipe for Roadway Culverts, at Rt. Ls. at Sta. 17+75 with conc. end walls Rt. & Lt. as shown.
Excavate Channel Rt. and Lt. as shown on Sheet № 362
Backfill Existing Channel abandoned by proposed Channel relocation.
Place Dumped Rock Fill at each End of Structure and along Roadway Ditch, as shown on this Detail and Cross Sections, for Protection.

ESTIMATED QUANTITIES

ITEM E-2	Excavation for Structures	958	Cu.Yds.
ITEM E-3	Channel Excavation	2189	Cu.Yds.
ITEM S-1	Concrete for Structures Class "E"	19.5	Cu.Yds.
ITEM S-27	Twin 8'-0" Extra-Strength Reinforced Concrete Culvert Pipe, Sec. M-6.6 (c)	248	Lin.Ft.
ITEM I-10	Dumped Rock Fill	125	Cu.Yds.

DATUM LINE Elev. 940.00

Note: Back fill existing Channel where abandoned. Backfilling existing channel need not meet Compaction Requirements as per Specifications except under Roadway fill. Unsuitable Material may be used as directed by the Engineer. 1590 Cu.Yds. material required for backfilling existing Channel.



SECTION ON ℄ OF STRUCTURE
Scale: 1" = 10'

DRAINAGE AREA = 1.95 Sq. Mi.
Q = 943 c.f.s.

STRUCTURE STA. 17+75 - NATIONAL ROAD

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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466

AUGLAIZE COUNTY
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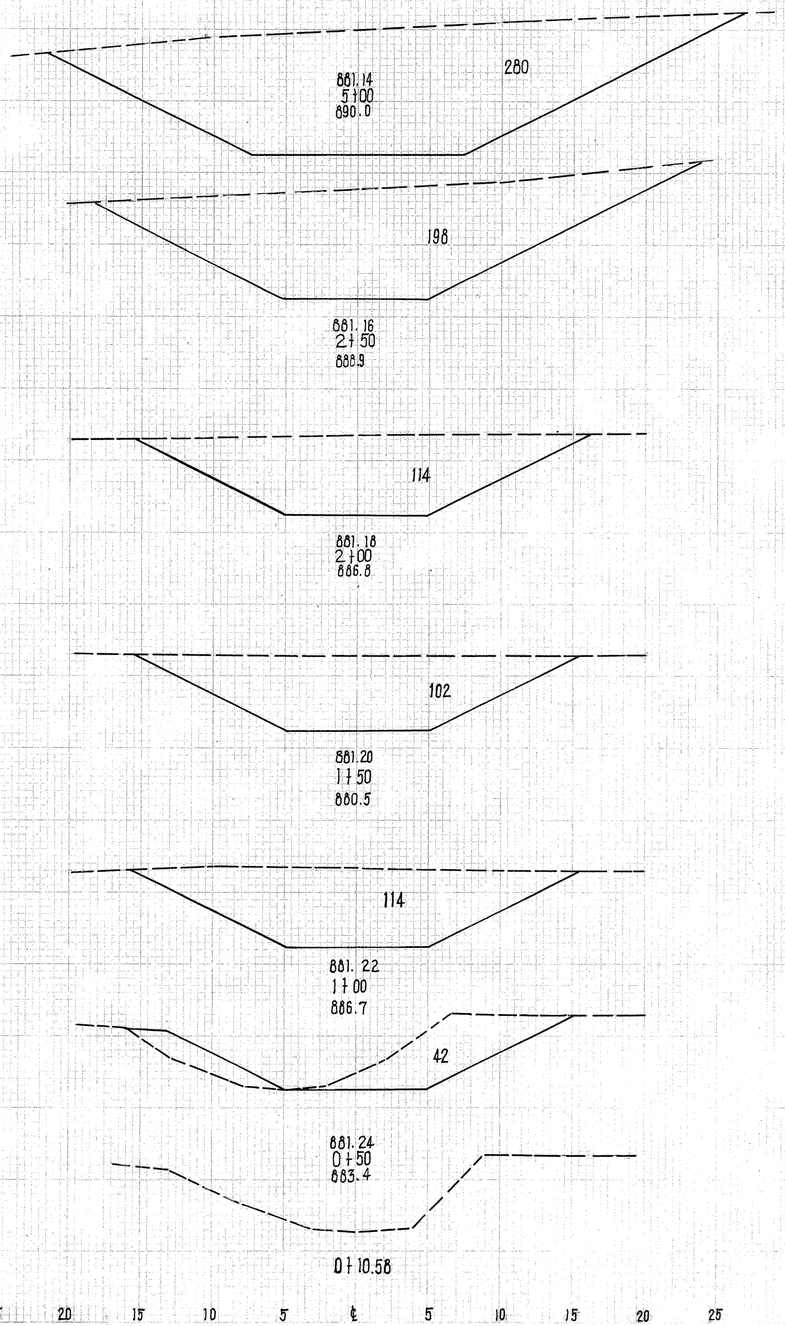
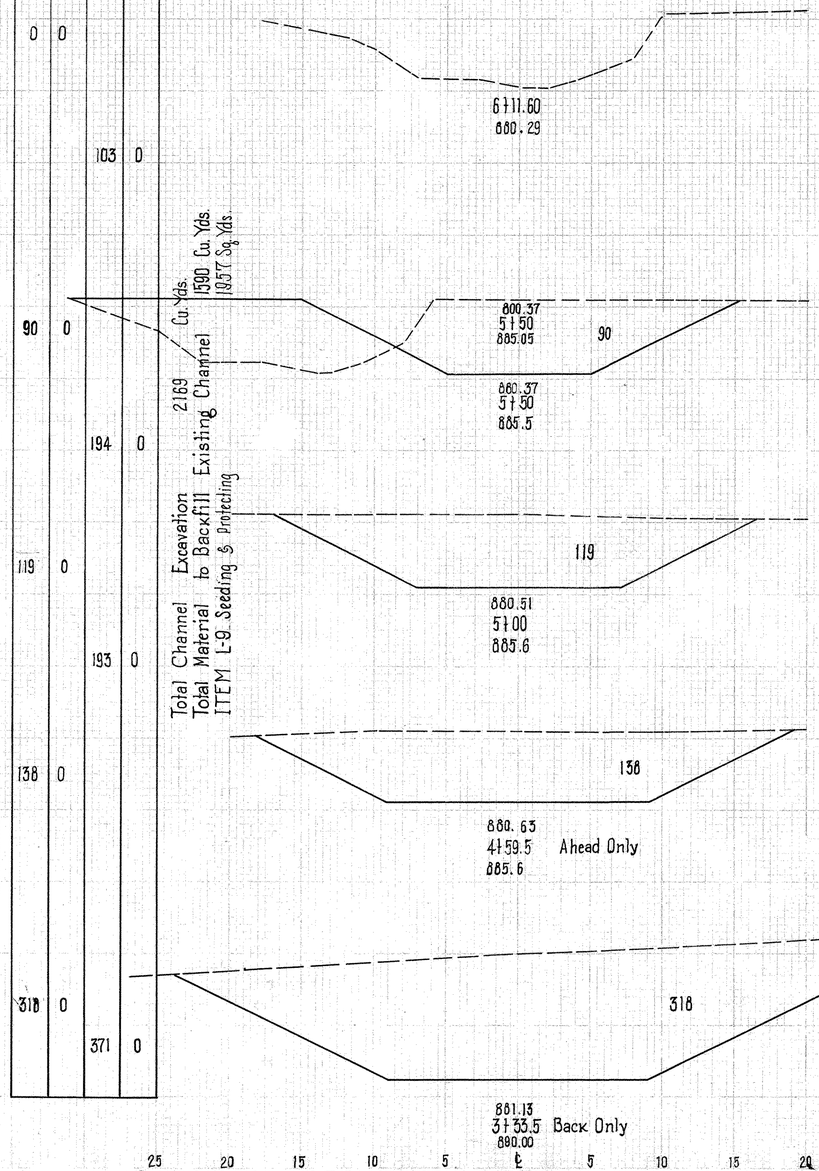
END AREA		VOLUME	
Cut	Fill	Cut	Fill
280	0		
		443	0
198	0		
		289	0
114	0		
		200	0
102	0		
		200	0
114	0		
		145	0
42	0		
		31	0
0	0		

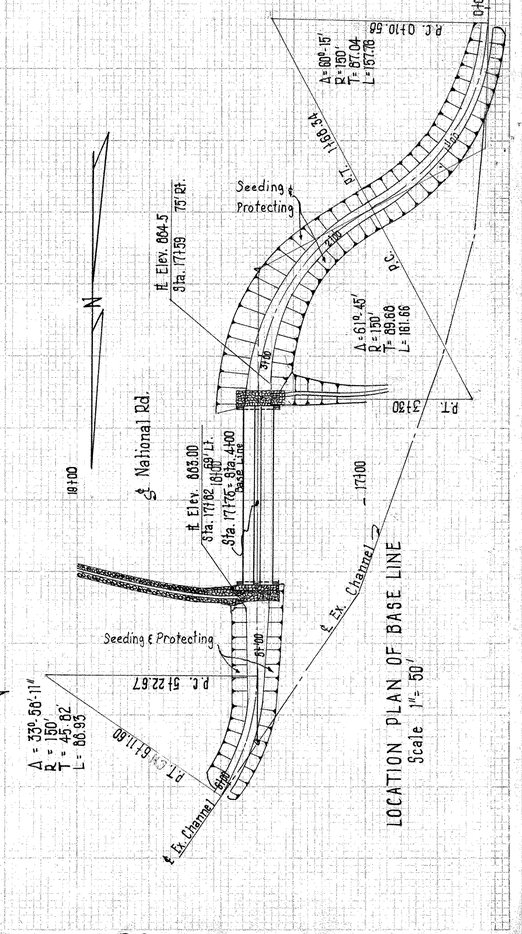


END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0		
		103	0
90	0		
		194	0
119	0		
		193	0
138	0		
		318	0
318	0		
		371	0

Total Channel Excavation 2169 Cu. Yds.
Total Material to Backfill Existing Channel 1590 Cu. Yds.
ITEM L-9. Seeding & Protecting 1957 Sq. Yds.



Note: Back fill existing channel where abandoned. Backfilling existing channel need not meet Compaction Requirements as per Specifications except under Roadway fill. Unsuitable material except trash, may be used as directed by the Engineer.



25 20 15 10 5 ℄ 5 10 15 20 25

CHANNEL SECTIONS STRUCTURE STA. 17+75 NATIONAL ROAD

ROADSIDE PARK GENERAL NOTES

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

363 466

AUGLAIZE COUNTY

AUG-25-5.05

ITEM SPECIAL - WELL SHELTER

METHOD OF MEASUREMENT

The well shelter and all appurtenances as detailed on sheet Nº 364 & 365 shall be considered as one unit. The number of units to be paid for shall be the number of each unit, listed and estimated separately, complete and accepted.

BASIS OF PAYMENT

The work included in this item shall be paid for at the contract unit price bid for each "ITEM SPECIAL WELL SHELTER" completed and accepted, which price and payment shall constitute full compensation for all excavation and backfill, and for furnishing, hauling and placing all materials, and for all labor, equipment, tools and incidentals necessary to complete this item.

ITEM SPECIAL - PARK TABLE

METHOD OF MEASUREMENT

The park table and supporting slab as detailed on Std. Drwg. R.P. Nº 2 shall be considered one unit. The number of units to be paid for shall be the number of each unit, listed and estimated separately, complete and accepted.

BASIS OF PAYMENT

The work included in this item shall be paid for at the contract price bid for each "ITEM SPECIAL PARK TABLE" completed and accepted, which price and payment shall constitute full compensation for all excavation and backfill, and for furnishing, hauling and placing all materials, and for all labor, equipment, tools and incidentals necessary to complete this item.

ITEM SPECIAL - SHELTER HOUSE TABLE

METHOD OF MEASUREMENT

The shelter house table as detailed on Std. Drwg. R.P. No 2 less the supporting slab shall be considered one unit. The number of units to be paid for shall be the number of each unit, listed and estimated separately, complete and accepted.

BASIS OF PAYMENT

The work included in this item shall be paid for at the contract unit price bid for each "ITEM SPECIAL SHELTER HOUSE TABLE" completed and accepted which price and payment shall constitute full compensation for furnishing, hauling and placing all materials, and for all labor, equipment, tools and incidentals necessary to complete this item.

ITEM SPECIAL - BULLETIN BOARD

METHOD OF MEASUREMENT

The bulletin board with all appurtenances as detailed on Std. Drwg. R.P. Nº 3 shall be considered one unit. The number of units to be paid for shall be the number of each unit, listed and estimated separately, complete and accepted.

BASIS OF PAYMENT

The work included in this item shall be paid for at the contract unit price bid for each "ITEM SPECIAL BULLETIN BOARD" completed and accepted which price and payment shall constitute full compensation for all excavation and backfill, and for furnishing, hauling and placing all materials, and for all labor, equipment, tools and incidentals necessary to complete this item.

ITEM SPECIAL - SHELTER HOUSE

METHOD OF MEASUREMENT

The shelter house with all appurtenances as detailed on sheet Nº 366 shall be considered one unit. The number of units to be paid for shall be the number of each unit, listed and estimated separately, complete and accepted.

BASIS OF PAYMENT

The work included in this item shall be paid for at the contract unit price bid for each "ITEM SPECIAL SHELTER HOUSE" completed and accepted, which price and payment shall constitute full compensation for all excavation and backfill, and for furnishing, hauling and placing all materials, and for all labor, equipment, tools and incidentals necessary to complete this item.

ITEM SPECIAL - PRIVY AND STORAGE SHED

METHOD OF MEASUREMENT

The privy and storage shed with all appurtenances as detailed on Sheets No. 367, 368, 369 shall be considered one unit. The number of units to be paid for shall be the number of each unit, listed and estimated separately, complete and accepted. Concrete walks are not a part of this item.

BASIS OF PAYMENT

The work included in this item shall be paid for at the contract unit price bid for each "ITEM SPECIAL PRIVY AND STORAGE SHED" completed and accepted, which price and payment shall constitute full compensation for all excavation and backfill, and for furnishing, hauling and placing all materials, and for all labor, equipment, tools and incidentals necessary to complete this item.

ITEM SPECIAL - PICNIC GRILL AND SERVING TABLE

METHOD OF MEASUREMENT

The Picnic Grill and Serving Table and supporting slab as detailed on Sheet Nº 371 shall be considered one unit. The number of units to be paid for shall be the number of each unit, listed and estimated separately, complete and accepted.

BASIS OF PAYMENT

The work included in this item shall be paid for at the contract unit price bid for each "Item Special Picnic Grill and Serving Table" completed and accepted, which price and payment shall constitute full compensation for all excavation and backfill, and for furnishing, hauling and placing all materials, and for all labor, equipment tools and incidentals necessary to complete this item.

ITEM SS-18 PARK FENCE

"Park Fence" shall be built at the locations shown on the plans and in accordance with Standard Drawing R.P. No. 1., in conjunction with the provisions of supplemental specifications. Nº 18.

ITEM SPECIAL - PYLON AND SIGN STANDARD

METHOD OF MEASUREMENT

The Pylon and sign standard with all appurtenances as detailed on sheet Nº 370 shall be considered one unit. The number of units to be paid for shall be the number of each unit, listed and estimated separately, complete and accepted.

BASIS OF PAYMENT

The work included in this item shall be paid for at the contract unit price bid for each "ITEM SPECIAL PYLON AND SIGN STANDARD" completed and accepted, which price and payment shall constitute full compensation for all excavation and backfill, and for furnishing, hauling and placing all materials, and for all labor, equipment, tools, and incidentals necessary to complete this item.

SEEDING AND PROTECTING

Seeding shall conform to specification L-9, except that the areas to be seeded shall be thoroughly loosened to a depth of at least 2 inches and harrowed before seeding. All rough, uneven areas including fencerows shall be graded to eliminate humps or depressions that would interfere with future mowing of the grass with a hand propelled power mower. All stone and debris larger than 2" in any dimension shall be removed from the surface before mulching.

Seed mixture shall be as follows

45 % Poa pratensis (Kentucky Blue Grass)
35 % Festuca rubra va. (Creeping Red Fescue)
20 % Agrostis alba (Red Top)

Park areas, other than the parking lot, shall not be used for storage of materials, parking of equipment, vehicles or for the location of buildings of any kind during construction by the Contractor.

Areas to be seeded are estimated for the entire park. Portions of this area may be non-performed at the direction of the Engineer.

LOCATIONS OF ROADSIDE PARK STRUCTURES AND APPURTENANCES:

The locations of Park Tables, Picnic Grills and Serving Tables, Well, Shelters, Shelter Houses, Privy and Storage Sheds, Bulletin Boards and Pylon and signs Standards as shown on the plans are approximate only. Exact locations will be determined by the Engineer during construction.

ITEM SPECIAL - DRILLED WELLS (SEE NOTE IN PROPOSAL)

[illegible] to be [illegible] shall be at [illegible] feet apart to a minimum of [illegible] gallons per minute.

The pump [illegible] cylinder [illegible] and to be furnished and installed by the Depart[illegible] equipment.

METHOD OF MEASUREMENT

The footage to be paid for shall be [illegible] number of [illegible] feet of well drilled.

BASIS OF PAYMENT

The footage measured as provided above shall be paid for at the contract unit price per [illegible] foot bid. The bid price shall include pipe which extends [illegible] inches above the concrete well slab, furnishing, hauling, and placing of [illegible] well strainer, and for all [illegible] equipment tools and incidentals necessary to complete this item.

ITEM E-9 REMOVAL OF [redacted] TREES AND STUMPS.

Within the Roadside Park Areas only those trees indicated by the Engineer shall be removed. Care shall be exercised by the Contractor in performance of this work so that no damage is done to trees indicated by the Engineer to be saved.

The Roadside Park Areas shall be cleared and grubbed in accordance with Section E-1.03 of the Construction and Material Specifications

Roadside Park Areas under this item are considered to be all park areas outside of the Limited Access Right-of-Way.

The number and size of trees and stumps shown below for removal are as nearly correct as available information permits. The State of Ohio will not be responsible for any variations found during construction. The lump sum bid for Item E-9 Removal of [redacted] Trees and Stumps, shall constitute full payment for this item and no additional compensation will be allowed

The number and size of trees and stumps are estimated below.

Size	Trees	Stumps
12" to 18"	60	4
18" to 24"	30	3
24" to 30"	5	1

ITEM L-17 PRUNING EXISTING TREES.

All trees within the Roadside Park Areas that are indicated to be saved by the Engineer, shall be pruned in accordance with Item L-17 of the Construction and Material Specifications. In addition to the work specified above, low limbs shall be removed to obtain seven (7) Foot clearance above the ground as directed. Roadside Park Areas are considered to be all park areas outside of the Limited Access Right-of-Way.

The number and size of trees to be pruned are as nearly correct as available information permits. The State of Ohio will not be responsible for any variations found during construction. The lump sum bid for Item L-17 Pruning Existing Trees shall constitute full payment for this item, and no additional compensation will be allowed.

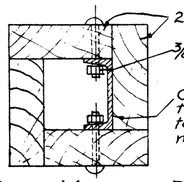
The number and size of trees to be pruned are estimated below.

Number	Size	Number	Size
60	6"	10	30"
100	12"	5	36"
20	20"		

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

264
466

AUGLAIZE COUNTY
AUG-25-5.05



PLAN VIEW OF POST CONSTRUCTION
Scale 3"=1'-0"

1 pc. 1"x3"x8' — Trap door cleats
1 " 2"x4"x2' — Trap door framing

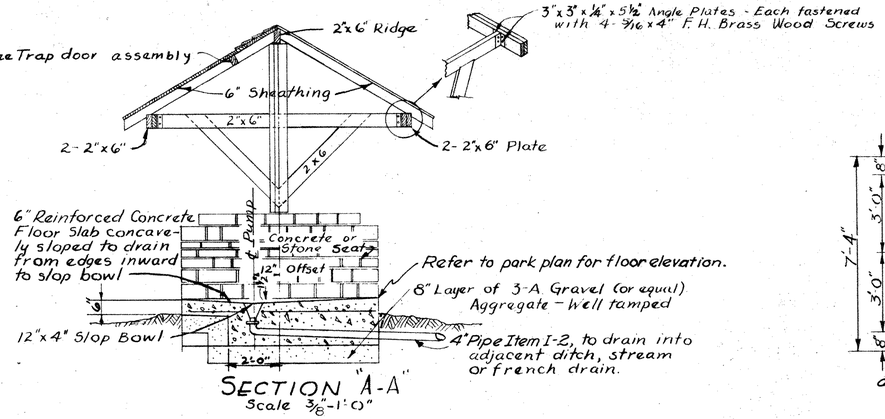
BILL OF MATERIALS

4 pcs. 2"x6"x10' — Cross members for roof and angular supports
5 " 2"x6"x14' — Ridge & plate for roof
8 " 2"x4"x14' — Roof rafters
4 " 2"x6"x16' — Boxing around channel iron, for column supports
2 " 6"x6"x10' — Wood posts (alternate column supports)
2 " 5½"-7" O.D x 11'- Used well casing. (alt. column supports)
28 " 1"x6"x14' — Roof sheathing
2 " 1"x3"x14' — Facia boards
10 bundles - 16" - Random width wood shingles, grade xxxxx cedar.

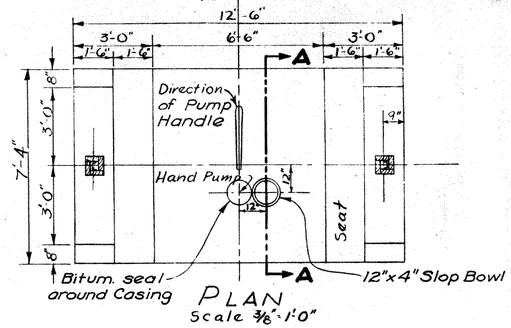
Hardware

24 each ⅜"x 3" — Carriage bolts in column supports
4 " ½" x 11" — C-Bolts, column & braces
4 " ½" x 9" — C-Bolts, column & cross-arms
4 " ½" x 5" — C-Bolts, braces & cross-arms

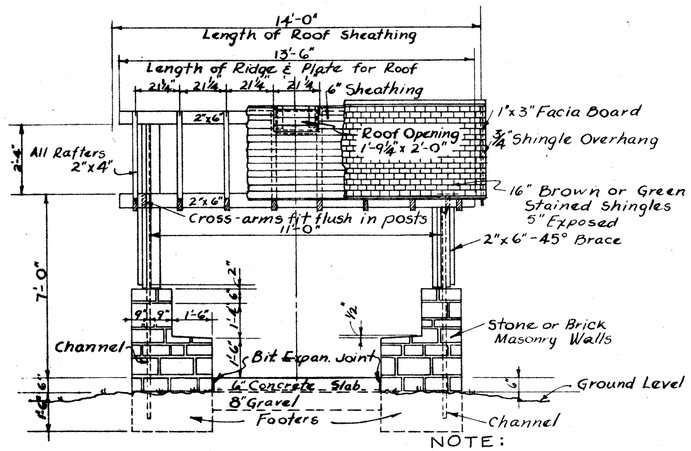
2 pcs (11 lin ft each) - Channel iron
8 ea. 3"x3"x¼"x5½" - Angle plates
46 " 5/16"x4" - F.H. brass wood screws
2 " 2½" - Screen door hooks - complete
4 " ½"x15" (2" spread) - U-Bolts, alternate with used well casing posts



SECTION "A-A"
Scale ⅜"-1'-0"

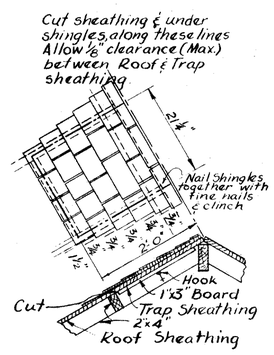


PLAN
Scale ⅜"-1'-0"

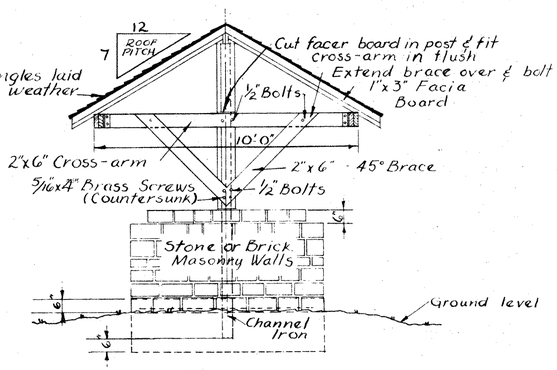


NOTE: Bituminous Expansion Joint will not be necessary if concrete well slab is placed integral with footers for Well Shelter.

ELEVATION
Scale ⅜"-1'-0"



DETAIL OF TRAP DOOR
Scale ¾"-1'-0"



ELEVATION
Scale ⅜"-1'-0"

NOTES

All outside vertical surface joints shall be raked to a depth of ¼" to ½".

All stone masonary shall comply with specification for Item 5-20. No masonary, stone or brick shall be painted.

Brick shall be size number 3 or 4, made from clay and comply with specification for Item I-8.

The posts constructed from 2"x6" boards shall be fastened with suitable nails, also 5/16"x4" brass screws at 24" intervals.

All lumber shall be S4S, Std., KD., "I common and better, Southern Yellow Pine or Douglas Fir.

All lumber and shingles be treated in accordance with the requirements for "Pentachlorophenol Treatment," Sec M-8.6.

Concrete shall be Class "C" and constructed in accordance with the requirements of Item 5-1 of the Specifications

Reinforcing steel in 6" reinforced concrete floor slab shall be ⅜" steel rods spaced 12" apart O.C. both ends. Reinforcing steel not required in footers, nor in 8" walls or 4" floor slab of compartment.

Large sized washers shall be used with all bolts, one at each end; a lock washer shall also be used at the nut end. Bolts shall be cut off ¼" beyond the nut & then hammered. All bolt holes shall be soaked with 5% Pentachlorophenol Solution, thoroughly before inserting bolts.

Bolts shall be good quality Hot , galvanized, or copper bearing.

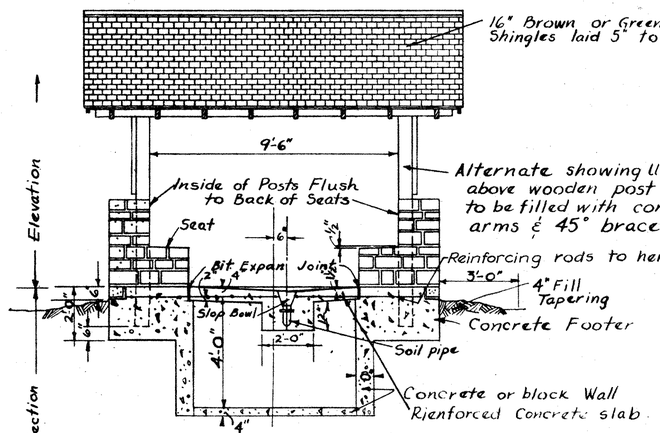
In all shelters containing a well & pump these are offset from center of 6" concrete slab, and trap door is built into roof of shelter as shown, all to allow for drawing of pump and/or casing, in the event repairs have to be made.

Should local conditions warrent, drainage of excess ground water from compartment beneath fountain; it shall be carried off either by gravity flow or sump drains as required, by topography, of the individual park area affected.

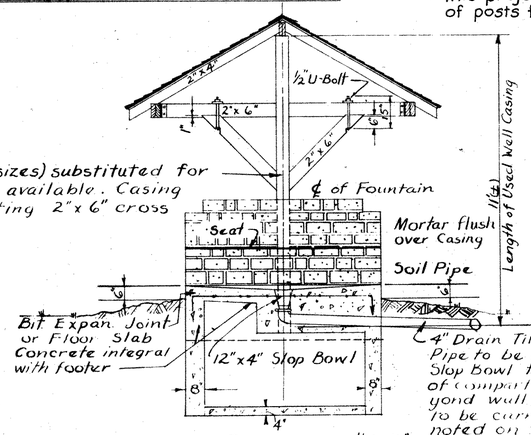
Aggregate subbase for concrete slab shall meet the requirements of Item I-22 Subbase, Grading "C" or "D".

This Well Shelter Design is the "TRADE MARK" of the Roadside Parks in Ohio. It will be erected as standard.

NOTE: Details below this line do not apply to this project except for alternate design of posts for the Well Shelter.

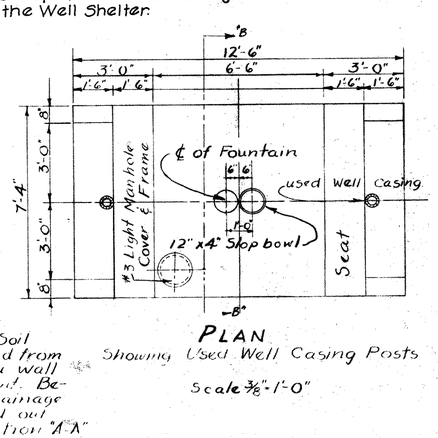


SECTION - ELEVATION ⅜"-1'-0"
Compartment Under Slab & Fountain Where City Water is Used To Allow Repairing



4" Drain Tile - Soil Pipe to be used from Slop Bowl thru wall of compartment. Beyond wall drainage to be carried out noted on Section "A-A"

SECTION "B-B"
⅜"-1'-0"



PLAN
Showing Used Well Casing Posts
Scale ⅜"-1'-0"

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
WELL SHELTER

ROADSIDE PARKS

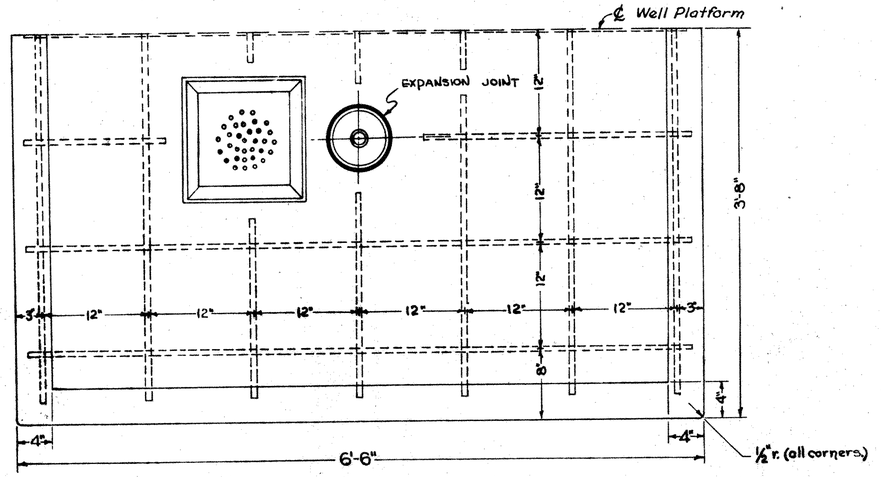
DESIGNED	TRACED	APPROVED
C.A.W.	R.C.B.	W.J.G.

ROADSIDE PARK WELLSHELTER DETAIL

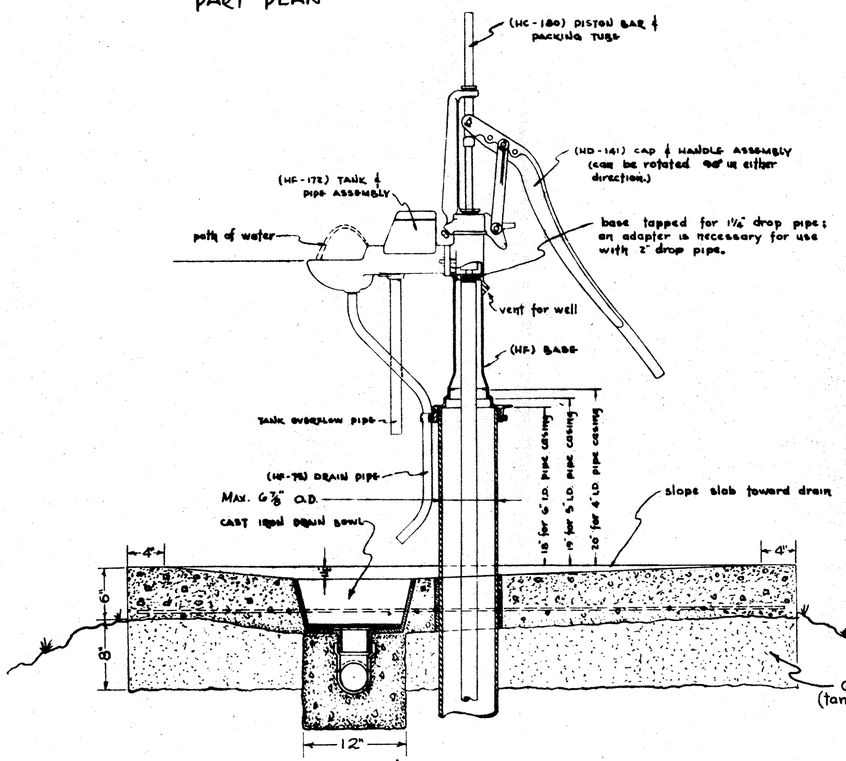
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

365
466

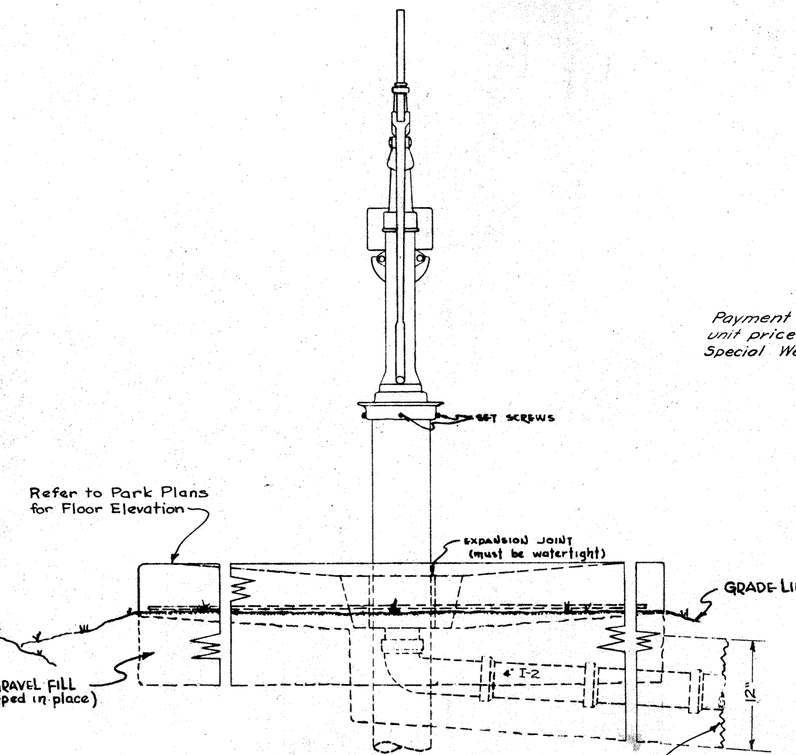
AUGLAIZE COUNTY
AUG-25-5.05



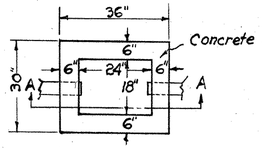
PART-PLAN

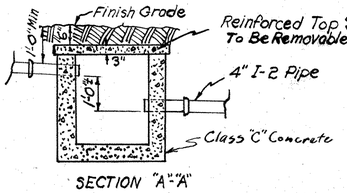


SIDE ELEVATION



REAR ELEVATION





SECTION "A"-"A"

Top Slab Reinforcement to consist of ⅜" ϕ bars spaced at 6" center to center both ways.

TYPE A CATCH BASIN

BILL OF MATERIAL

*1 HAND DRINKING FOUNTAIN TYPE PUMP
1 cuyd. CLASS "C" CONCRETE
AGGREGATE shall conform to I-22 GRADING "C" or "D"
1 12"x12"x6" CAST IRON DRAIN
(for alternate) 12"x4" VITRIFIED TILE BOWL
2-½"ϕ x 1'9" REINFORCING STEEL
2-½"ϕ x 4'0" REINFORCING STEEL
5-½"ϕ x 6'0" REINFORCING STEEL
3-½"ϕ x 6'10" REINFORCING STEEL

Payment included in unit price bid for "Item Special Well Shelter".

Note: The location of 4" Storm Sewer shall be furnished on park plan.

Floor slab may be poured integral with the well shelter floor. (see detailed drawings of well shelters.)

* Hand pump shall be Model 1-HF as manufactured by Baker Mfg. Co., Evansville, Wisconsin or equal. Not a part of this contract.

Feb. 28, 1947
Jan. 28, 1953
Dec. 7, 1955

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
ROADSIDE PARKS

PUMP & WELL PLATFORM

DATE	DESIGNED	TRACED	APPROVED
June 11, 1937	C.A.W.	J.F.	W.J.G.

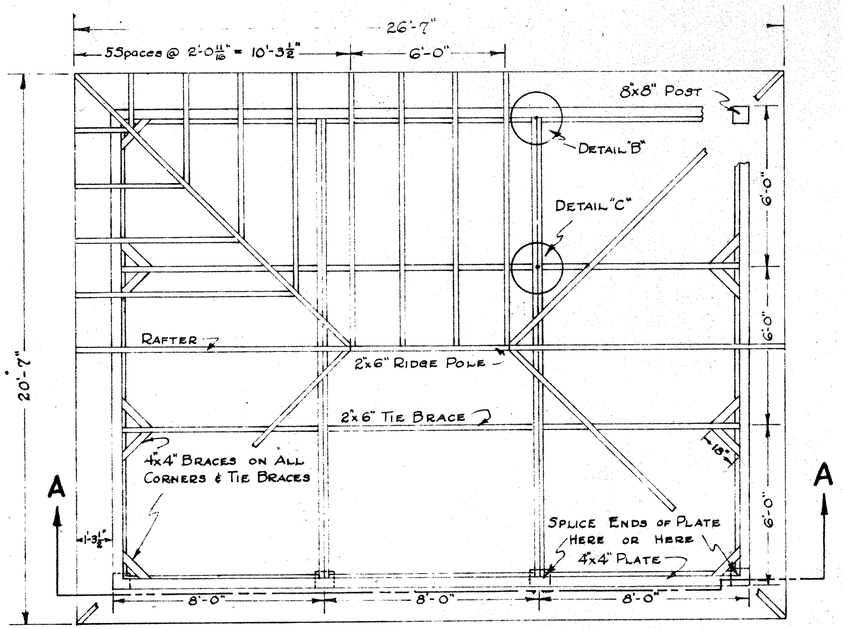
SCALE 1½" = 1'-0"

ROADSIDE PARK PUMP & WELL PLATFORM

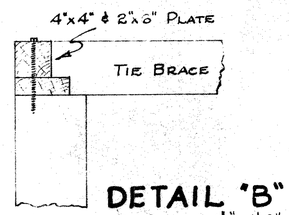
SEC. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
	OHIO		

366
466

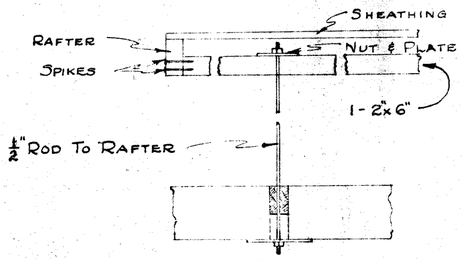
AUGLAIZE COUNTY
AUG-25-3.05



ROOF AND RAFTER PLAN
SCALE 3/8" = 1'-0"



DETAIL "B"
SCALE 1 1/2" = 1'-0"



DETAIL "C"
SCALE 1 1/2" = 1'-0"

NOTES

All lumber shall be S4S, Std., KD., #1 common and better, Southern Yellow Pine or Douglas Fir. (Sec. M-8).

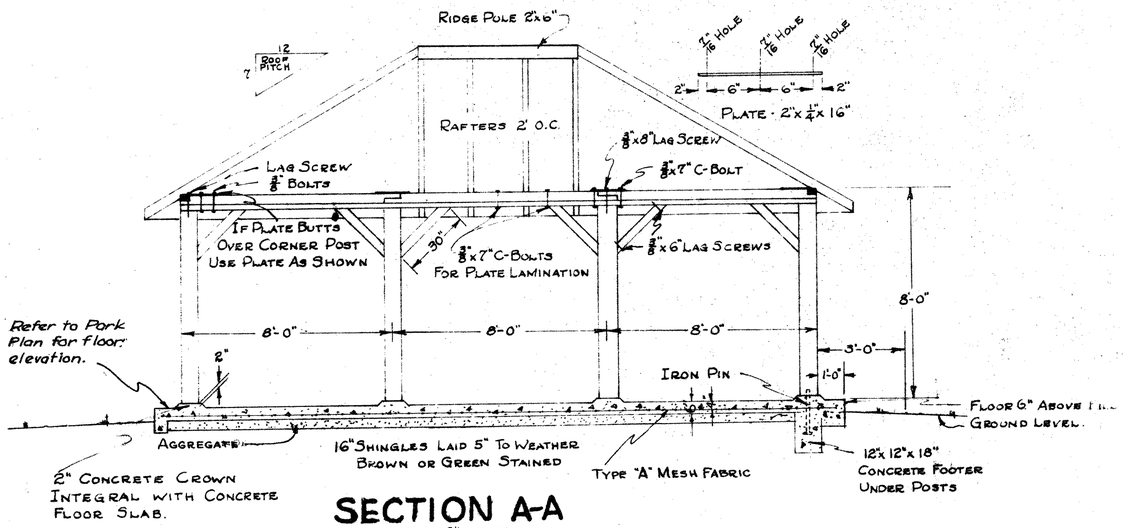
All lumber and shingles shall be treated in accordance with the requirements for "Pentachlorophenol Treatment," Sec M-8.6.

Large sized washers shall be used with all bolts, one at each end; a lock washer shall also be used at the nut end. Bolts shall be cut off 1/4" beyond the nut end and then hammered. All bolt holes shall be painted with pentachlorophenol 5% (by weight) solution. Bolts shall be good quality wrought iron, cadmium plated.

Aluminum or Hot Galvanized nails, 1 1/4" long shall be used to nail down shingles.

Aggregate subbase for concrete slab shall meet the requirements of Item I-22 Subbase, Grading "C" or "D".

The necessary excavation shall be performed in accordance with the requirements of Item E-2 of the Specifications.



SECTION A-A
SCALE 3/8" = 1'-0"

BILL OF MATERIALS
FOR SHELTER HOUSE

26	Pcs.	2"x 4"x 14'
4	"	2"x 4"x 16'
1	"	2"x 6"x 6'
7	"	2"x 6"x 10'
3	"	2"x 6"x 12'
3	"	2"x 6"x 16'
4	"	2"x 6"x 18'
2	"	4"x 4"x 8'
10	"	4"x 4"x 14'
12	"	8"x 8"x 8' Hardwood Posts
30	Bundles	Shingles, Br. or Gr. Stained
700	Bd. Ft.	Sheathing 1"x 6"
72		3/8"x 6" Lag Screws
12		3/8"x 8" Lag Screws
58		3/8"x 7" Bolts
12		1/4"x 2"x 16" Splice Plates
4		1/2"ϕ x 4'-3" Tie Rods (Threaded Ends)

Type "A" Mesh Fabric (See Standard Construction Drawing B-T-71R).

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DETAIL OF SHELTER HOUSE
ROADSIDE PARKS
JANUARY 16, 1956

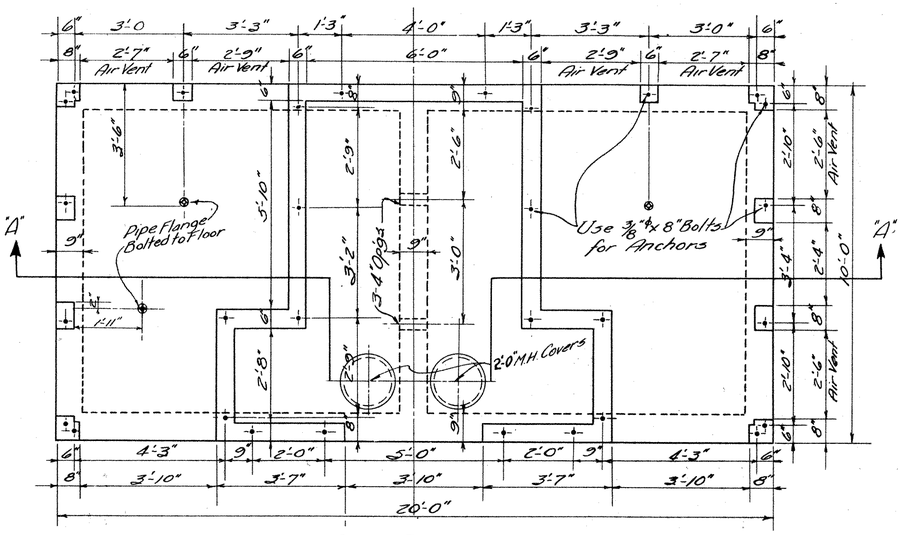
DESIGNED	TRACED	APPROVED

ROADSIDE PARK SHELTER HOUSE DETAIL

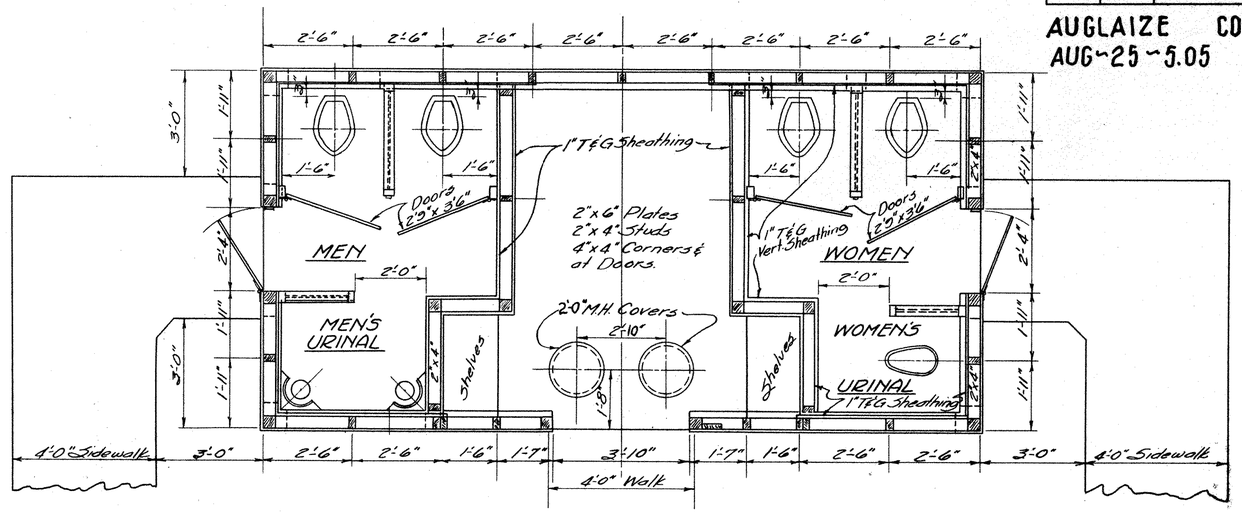
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

367
466

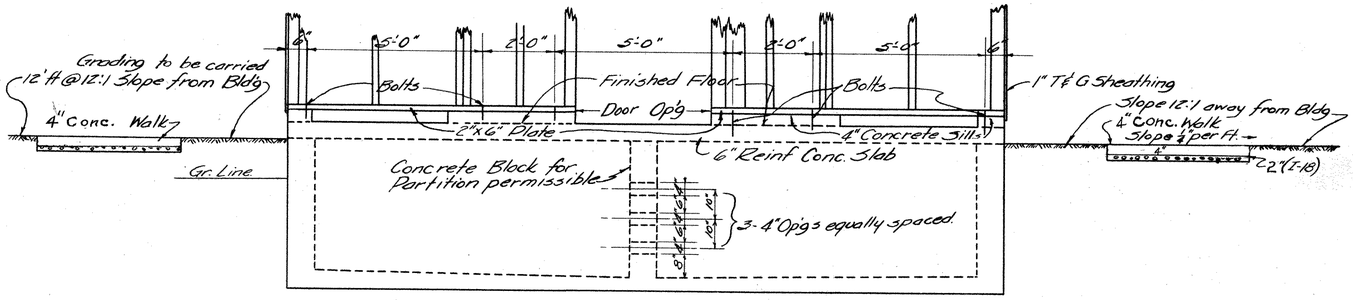
AUGLAIZE COUNTY
AUG-25-5.05



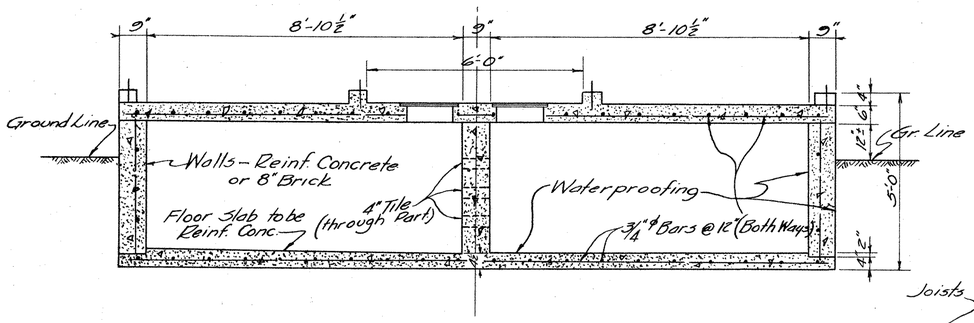
FOUNDATION PLAN
Scale ½"=1'-0"



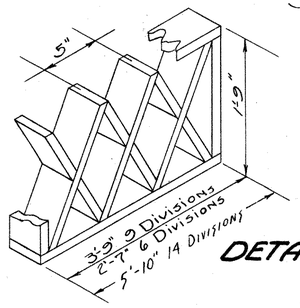
FLOOR PLAN
Scale ½"=1'-0"



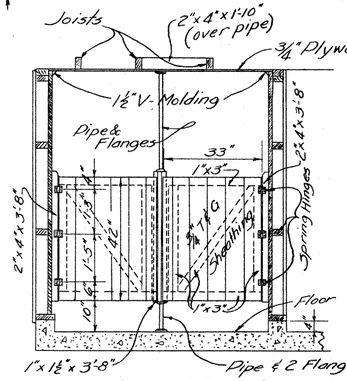
ELEVATION
Scale ½"=1'-0"



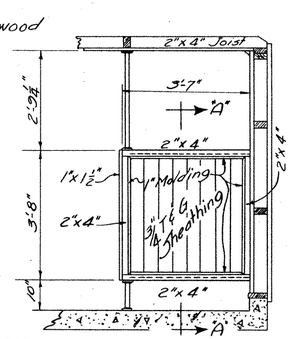
SECTION A-A
Scale ½"=1'-0"



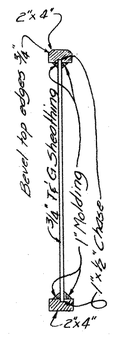
DETAIL WINDOW VENT
NO SCALE



ELEVATION
Scale ½"=1'-0"

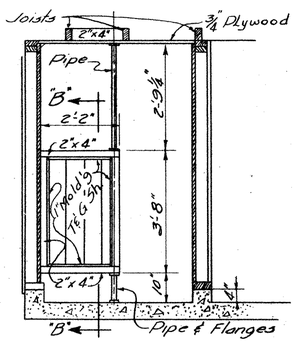


PARTITION
Scale ½"=1'-0"

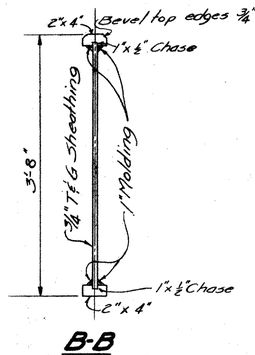


A-A
Scale 1"=1'-0"

TOILET STALLS



ELEVATION
Scale ½"=1'-0"



B-B
Scale 1"=1'-0"

URINAL SCREEN

REVISIONS
DEC. 12, 1955
JULY 12, 1956

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
ROADSIDE PARKS
Combination Toilet and Storage Building

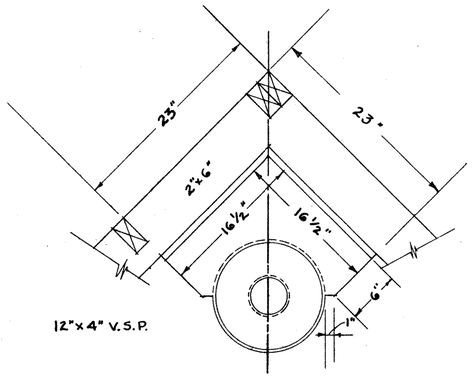
DATE 1/10/54	DESIGNED	TRACED	Approved
Scale ½"=1'-0"		CO.	W.J.G.

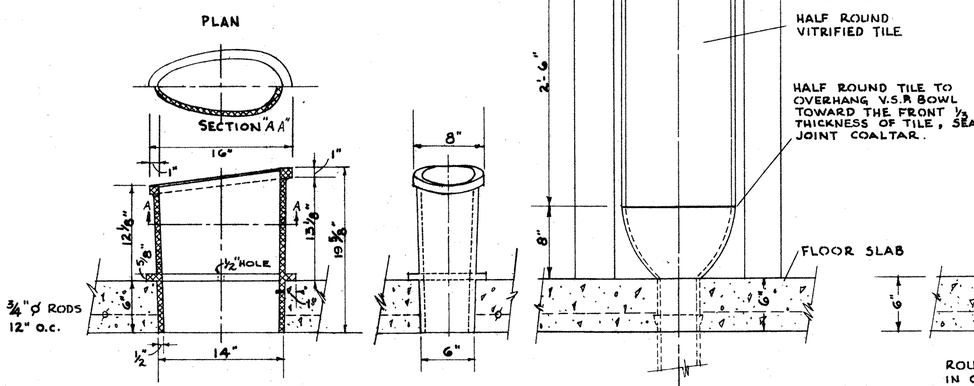
ROADSIDE PARK BUILDING FLOOR PLAN

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

366
466

AUGLAIZE COUNTY
AUG-25-5.05



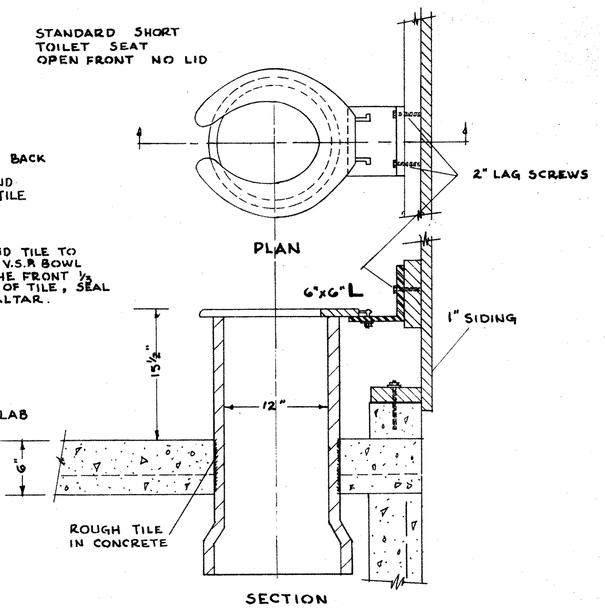


WOMEN'S URINAL

MEN'S URINAL

SCALE 1½" = 1'-0"

WOMAN'S URINAL TO BE FURNISHED
BY OHIO DEPT. OF HIGHWAYS FOR
INSTALLATION BY THE CONTRACTOR



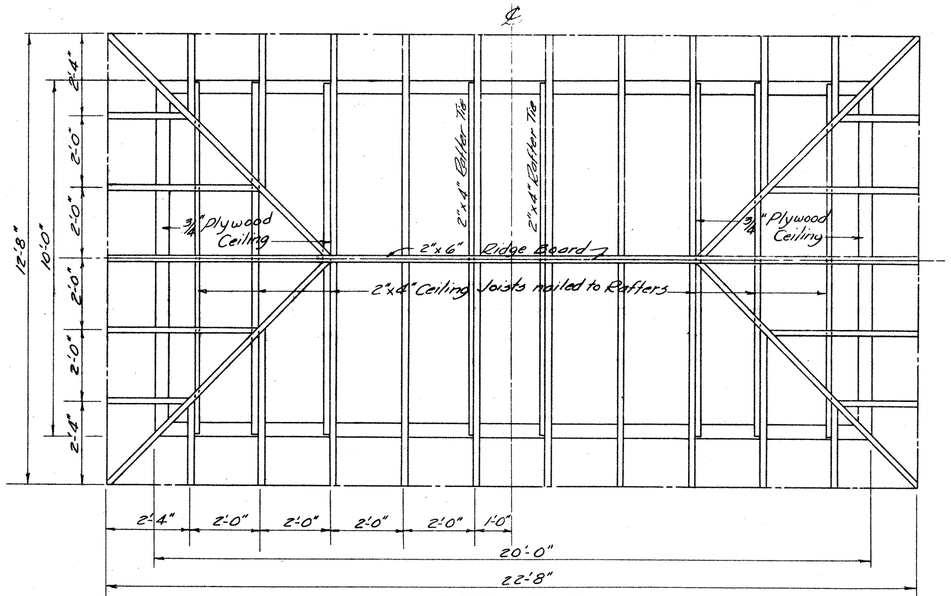
SECTION

RISER & PRIVY SEAT DETAIL

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

369
466

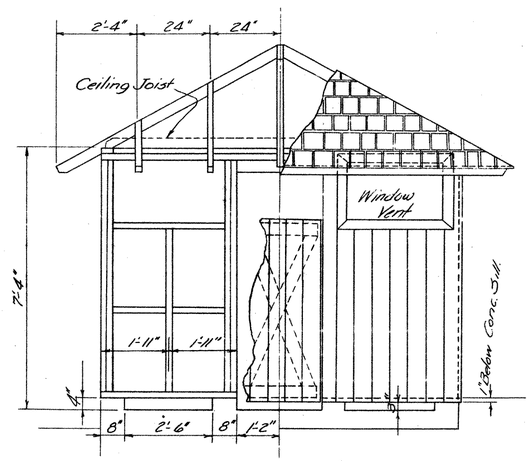
AUGLAIZE COUNTY
AUG-25-5.05



ROOF PLAN

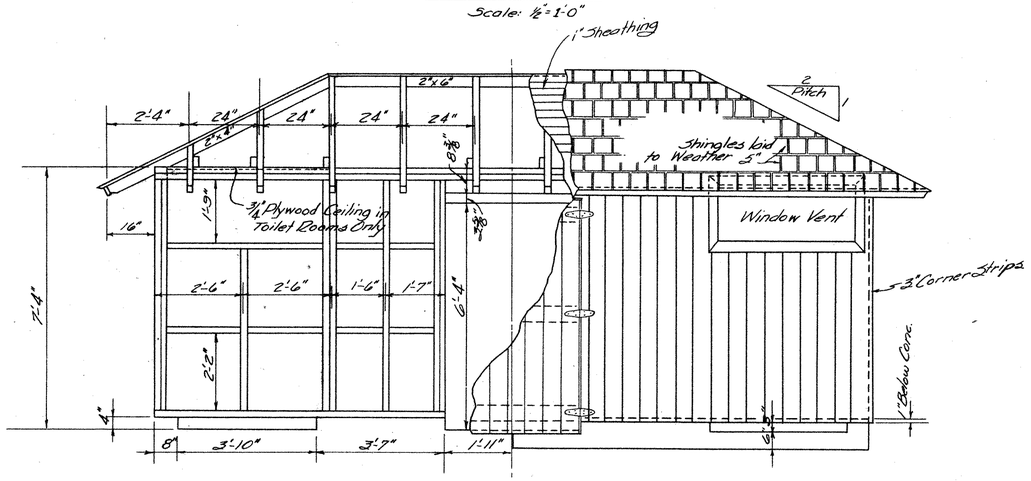
Scale: 1/2"=1'-0"

Note:
All lumber and shingles be treated in accordance with the requirement for Pentachlorophenol Treatment; Sec. M-8-6.
All lumber shall be 34S Std., k.D. "1 Common and better Southern Yellow Pine or Douglas Fir (Sec. M.8).

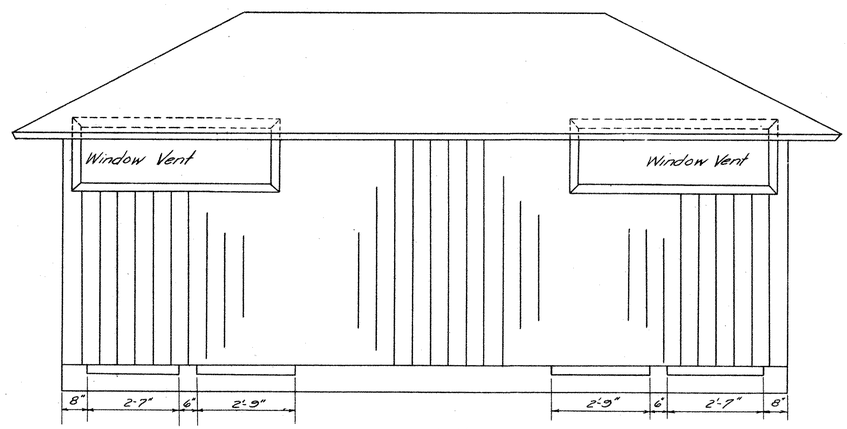


END FRAMING & ELEVATION

Note: All lumber exposed to weather, including shingles shall be fastened together with aluminum, or Hot Galvanized Finished Nails.



FRAMING - FRONT - ELEVATION



REAR ELEVATION

Notes: Vault pit may be excavated quickly with a bulldozer. Later backfill to be replaced around vault walls by hand labor; up to the desired ground level, after waterproofing walls.

6" reinforced concrete slab & 4" sill to be poured on timber forms. After concrete has set, forms are to be knocked apart and removed piece by piece through manholes.

Use 3/4" Steel Rods spaced 12" c-c both ways, or 1" Steel Rods spaced 18" cc both ways.

Concrete shall be Class "C" mix as per specifications.

Brick shall comply with specification for item 8.

3/8" anchor bolts shall be of good quality, hot galvanized or copper bearing. A large sized washer & lock washer & nut shall be placed on threaded end protuding above 2"x6" plate. Bolts shall be cut off 1/4" beyond the nut, & hammered. All bolt holes in plate should be soaked with 5% pentachlorophenol solution before inserting bolts.

Floor slab of vault to be poured first, with 2"x4" key in place as shown. After floor slab has hardened, remove 2"x4". Resulting slot to receive motor during first operation of laying first course of brick in outer walls of vault.

The vault floor, inside walls, and outside walls shall be treated in accordance with the requirements for waterproofing, Sec. 5-306 Type "B" Waterproofing with Sec. M. 5-8 W.P.P.

MANHOLE FRAME & COVER.

THE MANHOLE FRAME & COVER SHALL MEET THE REQUIREMENTS SHOWN ON STANDARD DRAWING I-8 M.H. No. 3 EXCEPT THE 20-1" CORED HOLES SHALL BE OMITTED IN THE COVER.

No Pieces	Description	Size	Board Feet
3 Pcs.	Plywood	3/4" x 4' x 10'	120
6 "	Rafters	2" x 4" x 14'	56
5 "	Hip Rafters	2" x 4" x 12'	40
4 "	" "	2" x 4" x 10'	26 2/3
2 "	" "	2" x 4" x 8'	10 2/3
2 "	Plates	2" x 6" x 8'	16
5 "	Plates & Ridge Board	2" x 6" x 10'	50
3 "	Plates & Horizontals	2" x 4" x 12'	24
4 "	" & "	2" x 4" x 10'	26 2/3
11 "	" & "	2" x 4" x 8'	117 1/3
4 "	Toilet Stalls	2" x 4" x 14	37 1/3
1 "	Toilet Screens	2" x 4" x 10'	6 2/3
12"	Window Trim 34S	1" x 4" x 12'	48
8"	Door Battons 34S	1" x 3" x 14'	28
	T&G Sheathing	32S	1200
	Roof Sheathing	31 31E	500
20	Bdl Shingles		
8	Window Vents as per plan		
	1/2" Moulding	40 Lin Ft	
	1" Moulding	100 " "	
12	Spring Hinges		
3	8" Strap Hinges		
6	6" T Hinges		
		Total	2308

SCALE 1/2" = 1'-0"

REVISIONS
DEC. 12, 1955
JULY 12, 1956

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
ROADSIDE PARKS

Combination Toilet and Storage Building

DATE 1/10/54 | DESIGNED | TRACED CB. | APPROVED WJG
SCALE 1/2" - 1'-0"

ROADSIDE PARK - BUILDING

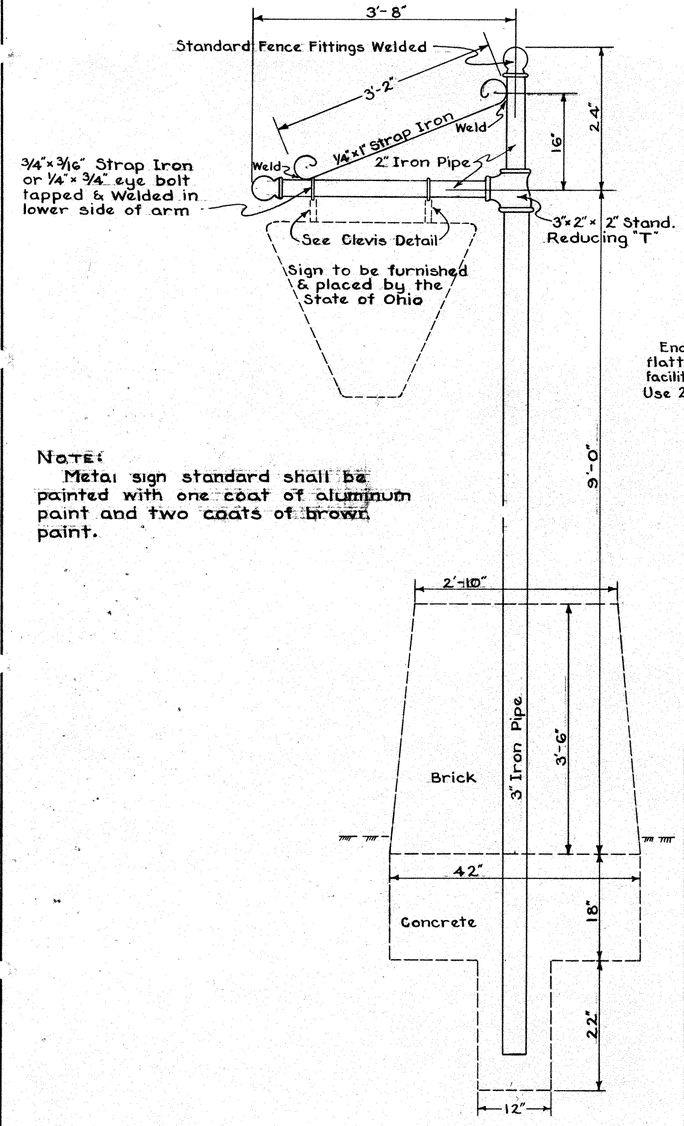
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

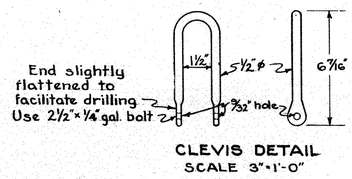
370
466

AUGLAIZE COUNTY
AUG-25-5.05

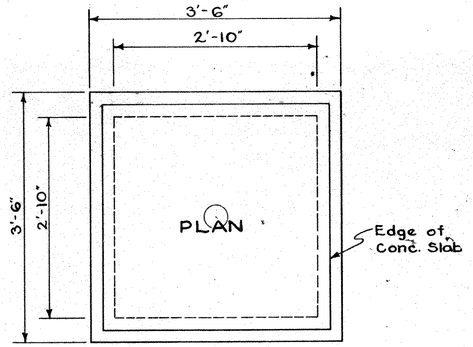
PYLON SIGN STANDARD

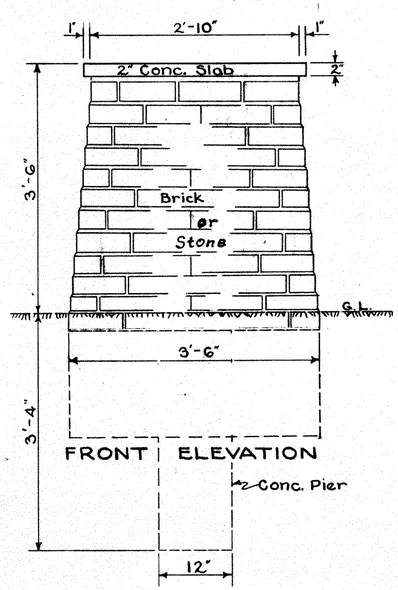
SCALE 1"=1'-0"





CLEVIS DETAIL
SCALE 3"=1'-0"





Note:
Metal sign standard shall be painted with one coat of aluminum paint and two coats of brown paint.

ESTIMATED QUANTITIES

QUAN.	UNIT	DESCRIPTION
1	Pc.	Iron Pipe 12' x 3"
1	"	Iron Pipe 18" x 2"
1	"	Iron Pipe 3'-2"x 2'
1	Only	Standard reducing T 3"x2"x 2"
2	"	Eye bolts ¼" x 3/4"
2	"	Standard Fence Fitting Caps as shown
2	"	Metal Rod 16" x ½"
300	Each	Face Brick
.75	Cu.Yd.	Concrete Class "E"

BUREAU OF LOCATION AND DESIGN
OHIO DEPARTMENT OF HIGHWAYS

DATE

PYLON
AND
SIGN STANDARD
ROADSIDE PARKS

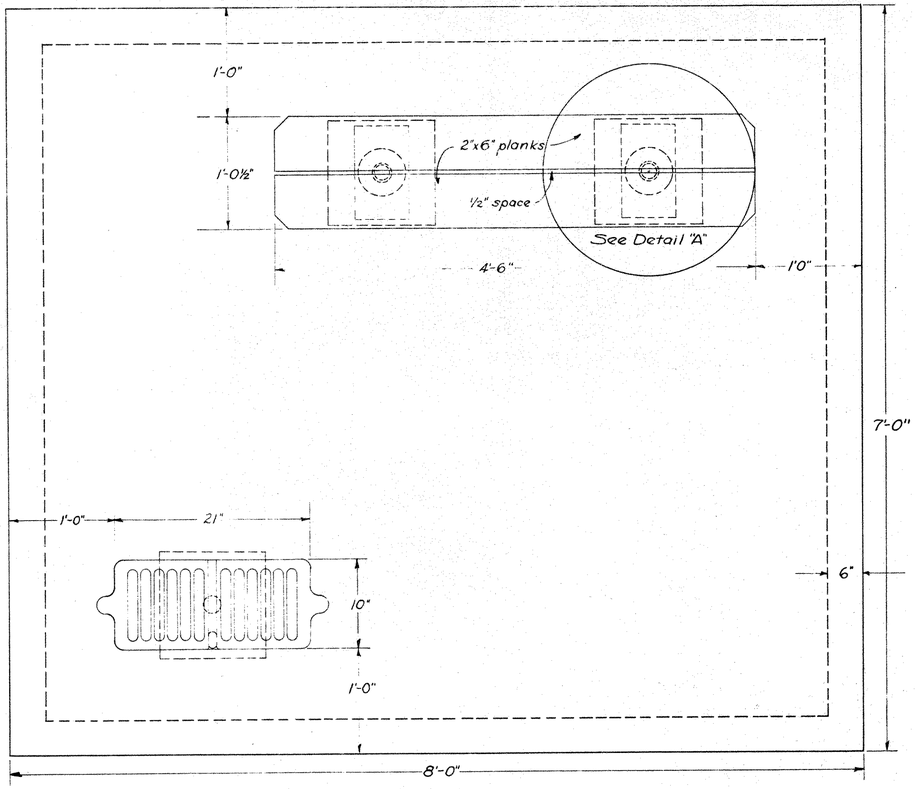
STANDARD CONSTRUCTION DRAWING
APPROVED ENGR. L. & D.

PYLON & SIGN STANDARD

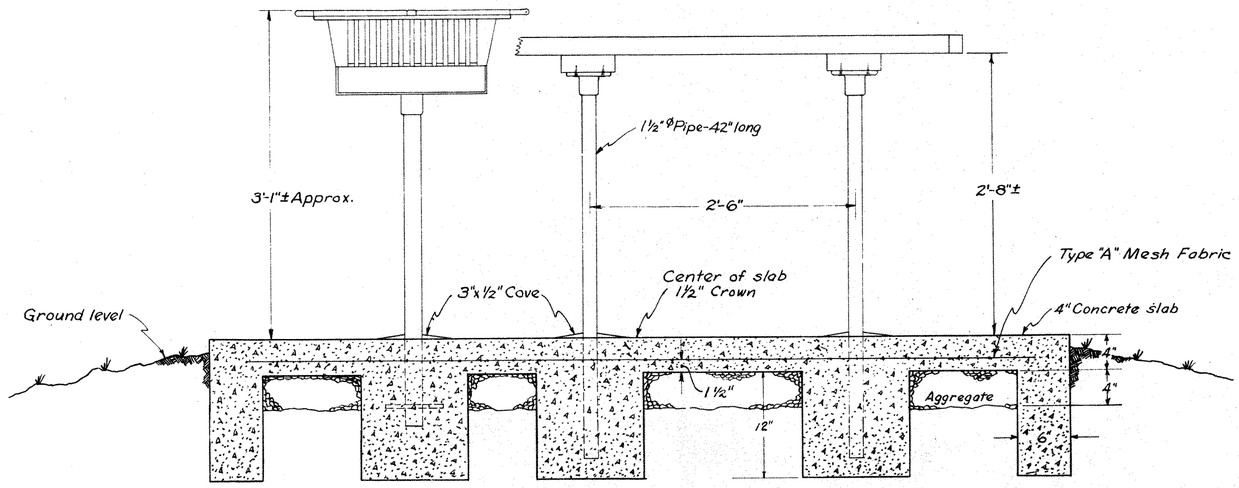
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

371
466

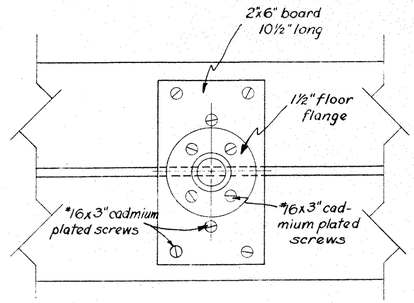
AUGLAIZE COUNTY
AUG-25-5.05



PLAN Scale 1½"=1'-0"



ELEVATION Scale 1½"=1'-0"



DETAIL "A"
Method of Attaching Pipe to Table Top

Scale – 3"=1'-0"

Item Special – Picnic Grill and Serving Table
Method of Measurement.

The picnic grill and serving table shall be considered as one unit. The number of units to be paid for shall be the number of each unit, listed and estimated separately, complete and accepted.

Basis of Payment.

The work included in this item shall be paid for at the contract unit price bid for each "Item Special Picnic Grill and Serving Table" completed and accepted, which price and payment shall constitute full compensation for all excavation and backfill, and for furnishing, hauling and placing all materials, and for all labor, equipment, tools and incidentals necessary to complete this item.

BILL of MATERIALS

1 Picnic Grill
2-1½"x3'-6" Pipe for serving table. (Galvanized.)
2-2"x6"x10½" Boards for serving table.
2-1½" Floor flanges.
2-2"x6"x4'-6" Planks for table top.
20-*16x3" Cadmium plated screws.

Concrete for Structures Class "C"
Type "A" Mesh Fabric. Std. Drawing B-T-71R

NOTES

All lumber shall be SAS, Std., KD., #1 common and better, Southern Yellow Pine, Item M-8 Specifications for lumber.
All lumber shall be treated in accordance with the requirements for "Pentachlorophenol Treatment," Sec. M-8.6.
All srews shall be cadmium plated.
Concrete slab shall be finished so that water will drain from top of slab.

Concrete shall be class "C" and constructed in accordance with the requirements of Item S-I of the Specifications.
Aggregate subbase for concrete slab shall meet the requirements of Item I-22 Subbase Grading "C" or "D."
The pipe supports for the Serving Table shall meet the requirements of Sec. M-6.9 and shall be galvanized in accordance with Sec. M-7.4(d) of the Specifications.
The picnic grill shall be model P manufactured by Modern Products Company, Tiffin, Ohio or approved equal.
The necessary excavation shall be performed in accordance with the requirements of Item E-2 of the Specifications.

Revisions

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
Picnic Grill & Serving Table
ROADSIDE PARKS

DESIGNED	TRACED	APPROVED

ROADSIDE PARK-PICNIC GRILL & SERVING TABLE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

372
466

AUGLAIZE COUNTY
AUG-25-5.05

DUCHOUQUET TWP.

Sec. 22 T-59-R-6E

Sec. 15 T- R-6E.

Limited Access Boundry
R/W Fence
Sta. 472+53.21 End Flare
Sta. 475+50
12" D.C.
473 474 475 476
476+65.7
7' 9' 12" D.C.
R/W Fence
Limited Access Boundary 2'
474+90 125'
Prop. Park Boundary
Park Fence
2'
+10.4 125'
477+43.4 210'
P.T. Sta. 401+33.74 - 61' Lt.
Limited Access Boundary
+92± 125'
Gate
+86 145'
R=80'
117'±
R/W Fence
2'
+10.5 125'
Δ = 14° - 0' (R = 409.28')
Δ = 19° - 0' (R = 301.56')
+59.31 50'
121.65 53' Lt.
+95.99
+10.4 400'
Proposed Park Boundary
Park Fence
2'
Shelter House
Well Shelter
Combination Privy & Storage
5' Concrete Walk
+105.79 201.49'
T-71 Pavement
45' 40' 40' 40' 40' 40' 40' 40' 40' 40' 45'
R-15' R-5'
146.69 L.T. 146.69 L.T.
6" High Curb
826.5± Limited Access Boundary
486+75.10 151' Lt.
T-71 Pavement
122.74 125'
(135) B
50' R
486+15.83 57' Lt. C.P.
20'
80' R.
14' 6'
146.69 32.27 Lt.
Sta. 490+75.19 Begin Flare
+30± 125'
P.I. Sta. 491+66.75
2'
Sta. 491+75.19 On Tang. Extended
Tang. Extended
492
+10.4 400'
Proposed Park Boundary
Park Fence
2'
10 Park Tables To Be Located By the Engineer During Construction
PROPOSED ROADSIDE PARK.
Sta. 472+53.21 End Flare
4.00' Off Of Tang.
Sta. 490+25.91 On Tang.

CURVE DATA
P.I. Sta. 479+17-115' Rt.
Δ = 50° - 08' - 40"
D = 30° - 20'
T = 46.26'
L = 96.46
P.C. Sta. 478+68.74
P.I. Sta. 479+65.20
P.T. Sta. 481+07.67

CURVE DATA
Δ = 23° - 0' - 40"
R = 90'
T = 18.32'
L = 36.15'
P.C. Sta. 485+22.74
P.C.C.C. Sta. 487+04.03

CURVE DATA
P.I. Sta. 491+66.75
Δ = 6° - 26' Rt.'
D = 0° - 30'
T = 644.01'
L = 1286.67'
E = 18.08'
P.C. Sta 485+22.74
P.T. Sta. 498+09.41

Limited Access Boundry
R/W Fence
Limited Access Boundary 2'
474+90 125'
Prop. Park Boundary
Park Fence
2'
+10.4 125'
143.2 210.0'
Proposed Park Boundary
Park Fence
+13.1 400'
Proposed Park Boundary 698.5'± 2'
+01.6 400'
Park Fence
Proposed Park Boundary
Limited Access Boundary
+10.4 125'
CURVE DATA
P.I. Sta. 479+04 - 129.86 Rt.
Δ = 43° - 51' - 19"
T = 36.23'
R = 90.0'
L = 66.89'
P.C. Sta. 7187.62 (P)
P.T. Sta. 01+56.51 (P)
R=90.0'
Limited Access Boundary
T-71 Pavement
179.0 166.96 L.T. 160.96 L.T.
40' 40' 40' 40' 40' 40' 40' 40' 40'
112.25 169.81 L.T. 169.81 L.T.
20'
6" High Curbs
T-71 Pavement
5' Concrete Walk
6" High Curbs.
479+78.0 216.0 Rt.
PROPOSED ROADSIDE PARK
F(3) F(2) Bulletin Board
C(2) E(2) D(2) E(3) D(3) E(1) C(3)
16" Sugar Maple
Well Shelter
Shelter House
F(3) F(3)
Combination Privy & Storage
10 Park Tables To Be Located By the Engineer During Construction
CURVE DATA
Δ = 66° - 41' - 33"
R = 90'
T = 32.28'
L = 57.33'
Sta. 483+50
Park Fence
Proposed Park Boundary 698.5'± 2'
DUCHOUQUET TWP.
+01.6 400'
Limited Access Boundary
360'±
122.74 125'
Sta. 484+00 - 175' Rt. Center 50' R.
146.2 245'
Proposed Park Boundary
335'±
167 125'
CURVE DATA
Δ = 25° - 12' - 55"
R = 757'
T = 169.31'
L = 333.13'

ROADSIDE PARK QUANTITIES				UNIT	RIGHT	LEFT	TOTAL
L-14 A	Gleditsia t. inermis	Thornless Honeylocust	2"-2½" B&B 24"	Ea.	8	8	16
L-13 B	Cotoneaster divaricata	Spreading Cotoneaster	24"-30" B&B 13"	Ea.	135	135	270
L-13 C	Euonymous f. vegetus	Bigleaf Wintercreeper Euonymus	18"-24" B&B 11"	Ea.	8	8	16
L-13 D	Ilex glabra	Inkberry	24"-30" B&B 13"	Ea.	4	4	8
L-13 E	Euonymus a. compactus	Dwarf Winged Euonymus	3'-4' B&B 13"	Ea.	2	2	4
L-13 F	Ligustrum regelianum	Regels Border Privet	2½'-3'	Ea.	12	12	24
L-14 G	Crataegus crusgalli	Cockspur Hawthorn	6'-8' B&B 18"	Ea.	3	Median	3
L-14 H	Crataegus o. pauli	Pauls Scarlet Hawthorn	6'-8' B&B 18"	Ea.	5	Median	5
L-14 J	Koelreuteria paniculata	Panicled Goldenraintree	6'-8' B&B 18"	Ea.	3	Median	3
L-14 K	Malus atrosanguinea	Carmen Crabapple	5'-6' B&B 16"	Ea.	8	Median	8
L-14 L	Malus floribunda	Japanese Flowering Crabapple	5'-6' B&B 16"	Ea.	18	Median	18
L-14 M	Malus p. eley	Eley Flowering Crabapple	5'-6' B&B 16"	Ea.	15	Median	15
L-14 N	Malus spectabilis	Chinese Flowering Crabapple	5'-6' B&B 16"	Ea.	8	Median	8
L-14 O	Prunus c. pissardi	Pissard Plum	5'-6' B&B 16"	Ea.	6	Median	6
L-13 P	Rhamnus cathartica	Common Buckthorn	4'-5'	Ea.	154	Median	154

ROADSIDE PARKS ~ PLAN LOCATION

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

373
466

AUGLAIZE COUNTY
AUG-25-5.05

SEE SHEET Nº 372 FOR PLANTING

479 480 481 482 ℄ of Prop. U.S.R. 25 483 484 485

NORTH BOUND LANES

MATCH LINE

Sta. 483+53.61 25' Rt.
Center of 90' R.

Sta. 484+00 - 67' Rt. I-8 Nº 1-2A.C.B.
Rt 12" S.S 900.5; Rt Grate 902.0

Curve Data
Δ = 5º-08'-41"
D = 5º-20'
T = 48.26
L = 86.46'

P.I. Sta. 479+17
115' Rt.

P.C. Sta. 478+07.20
Begin 1-4
Rt 1-4 907.5

P.T. Sta. 479+03.66

Sta. 479+64.96 Center 5' R.
160' Rt.

Sta. 479+78.12 Center 20' R
155' Rt.

End 1-4; Rt 1-4 907.5

Curve Data
Δ = 43º-51'-19"
R = 90'
T = 36.23
L = 68.89

P.C. Sta. 479+04
129.88' Rt.

P.C. Sta. 478+67.62' (P)

90' R

Curve Data
Δ = 43º-51'-19"
R = 90'
T = 36.23
L = 68.89

P.T. Sta. 480+96.40

Sta. 483+26.39 160' Rt.
Center of 5' R

Sta. 483+12.25 155' Rt.

I-8 Nº 3-A Catch Basin
Rt 12" 15" 900.0
Rt Grate 906.55
Rt 1-4 903.00

90' R. 12172.01

Curve Data
Δ = 23º-0'-40"
R = 90'
T = 18.32
L = 36.15

Storm Sewer Class "A" 12"

Curve Data
Δ = 25º-12'-50"
R = 757'
T = 169.31
L = 333.13'

Curve Data
Δ = 65º-41'-33"
R = 50'
T = 32.28
L = 57.33

50' R

Sta 484+00 175' Rt.
Center of 50' R

Sta 485+00 - 1/2' Rt.
End 1-2 Pipe Under Pavt.
Rt 1-2 899.6

15" 1-2 Storm Sewer under Pavt. Class "A"

1-13 Concrete Steps as per plan
T = 24" - R = 6"
Estimated Quantities 30 Lin. Ft.
The Project Engineer shall determine Location and Elevations.

5' Conc. S.W.

5' WALK

Bulletin Board

15" Sugar Maple

18" Sugar Maple

WELL

SHELTER

4' CONC. WALK

65'

SHELTER HOUSE

Type "A" Catch Basin

4" 1-2 Pipe Under Pav'td Approaches

COMBINATION PRIVY STORAGE

5:1 Max.

3:1 Max.

I-8 Nº 3-A Catch Basin
Rt 12" = 903.0
Rt Grate = 909.66
Rt 1-4 = 905.0

Slab Elevations to be determined by the Engineer.

Note: All radii are to Face of Curb.
All Elevations are to Top of Pavement, Face of Curb.
Taper Curb Ends 6" to 2" in 10 ft.
All Dimensions are to Face of Curb. Distance between Elev. Points 25' Unless otherwise noted.

(1) Standard Longitudinal Joint.
(2) Standard Key Joint without Tie Bars.
(3) Expansion Joint without dowels. (Located on Radial Lines)

486 487

MATCH LINE

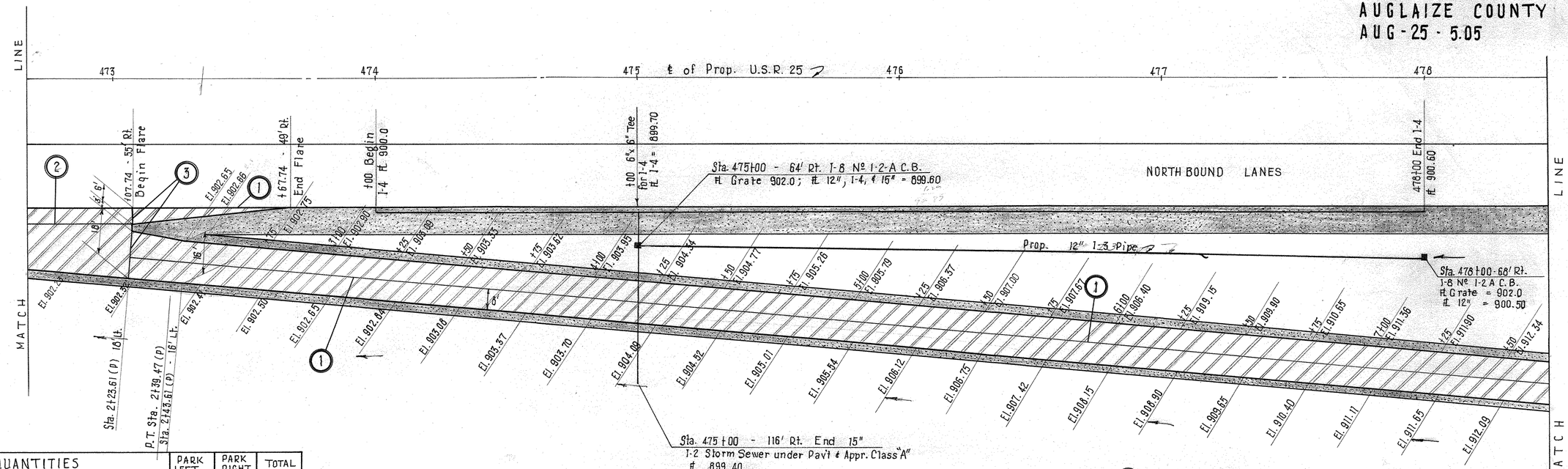
P.C.C. 487+04.03 - 61' Rt.

ROADSIDE PARK RIGHT STA. 481+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

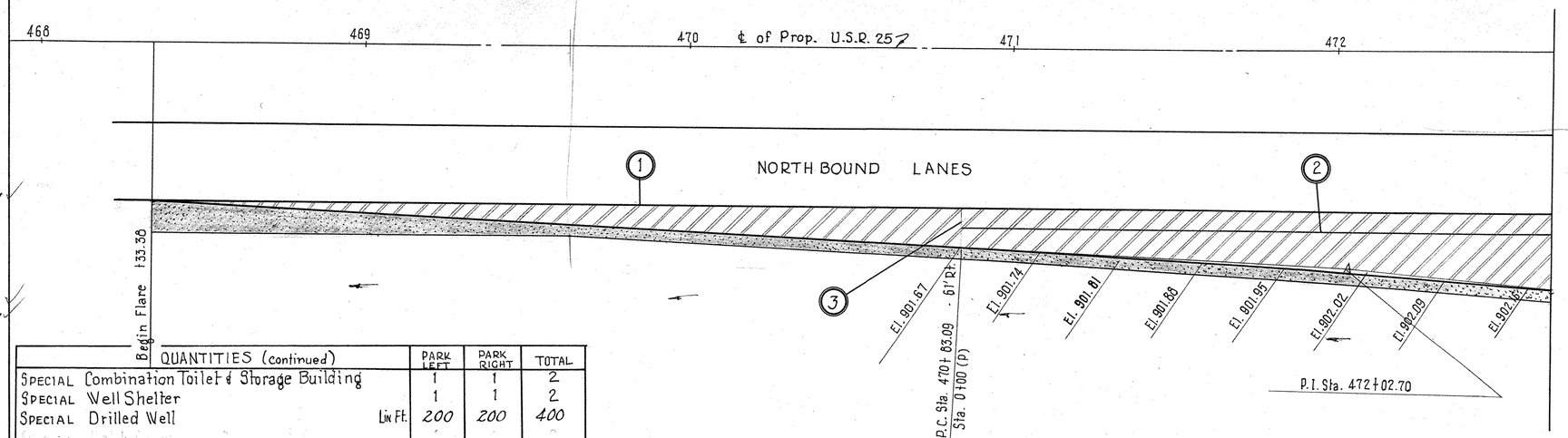
374/466

AUGLAIZE COUNTY
AUG-25-5.05



Note: All radii are to face of Curb
All Elevations are to Top of Pavement, Face of Curb. All dimensions are to Face of Curb. Distance between Elev. Points 25' unless otherwise noted.

1. Standard Longitudinal Joint.
2. Standard Key Joint without Tie Bars.
3. Exspansion Joint without dowels (Located on Radial Lines)



ROADSIDE PARK QUANTITIES		PARK LEFT	PARK RIGHT	TOTAL
Item T-11	9" Reinforced Portland Cement Concrete Pavement.	6396	7501	13,897
Item T-22	Subbase	1106	1260	2366
Item I-12	Standard Concrete Curb, Type 2-A	2347	2182	4529
Item I-18**	Stabilized Crushed Aggregate Shoulders & Approaches.	- 175.6	- 10.2	-186
Item B-35**	Bituminous Macadam Base Course	-1405.0	-813.7	-2219
Item T-31**	Bituminous Surface Treatment, Bituminous Material	- 351.0	-203.4	-554
Item T-31**	Bituminous Surface Treatment, Aggregate Nº 6	- 11.2	- 6.5	-18
Item I-13	Standard Concrete Steps	—	30	30
Item I-13	Standard Concrete Sidewalk	2806	2721	5527
Item I-6	Std. Nº 1-2 A Catch Basin	1	3	4
Item I-8	Std. Nº 3-A Catch Basin	6	2	8
Item I-2*	12" Pipe for Storm Sewer under Pav't & App'r. Class "B" Sec. M-6.8(b) & Sec. M-6.6(b).	214	70	284
Item I-2	15" Pipe for Storm Sewer Class "A"	60		60
Item I-2	18" Pipe for Storm Sewer Under Pav't & Appr. Class "A" Sec. M6.6(b) Sec. M6.8(b)	128		128
Item I-4	Underdrain	810	1238	2048
Item E-1	Excavation	—	36,387	36,387 ✓
Item E-4	See Borrow Calculations	—	—	—
Item S-21*	30" for Roadway Culverts- Sec. M-6.8(b) or M-6.6 (b)		24	24
Item S-21*	36" Pipe for Roadway Culverts	—	10	10
Item S-21*	15" for Roadway Culverts Sec. M-6.8 (b) or M-6.6 (b)		10	10
Item E-2*	Excavation for Structures	—	8	8
Item E-1	Compacted Subgrade	6396	7501	13897
Item I-21	Std. Concrete Median Pav't. Type 1 as per Plan.	11.3	14.7	26
Item I-8	Catch Basin Type "A".	1	1	2
I-2	4" Storm Sewer Under Pav't. Class "A"	72	198	270
I-2	12" Storm Sewers Class "A"	48	66	114
I-5	Pipe Special for I-4 Pipe 6"x 6" T	—	1	1
I-5	Pipe Special for I-4 Pipe 6" x 45	2	2	4
I-2	12" S.S. under Pav't & Approaches, Class "A" M-6.8(b) or M-6.6(b)	-	10	10
I-2	15" S.S. under Pav't & Approaches Class "A"	-	198	198
I-3	12" Roadway Drainage	—	298	298
Special	Picnic Grill & Serving Table	5	5	10
Special	Park Table	10	10	20
Special	Shelter House	1	1	2
Special	Shelter House Table	4	4	8

QUANTITIES (continued)			PARK LEFT	PARK RIGHT	TOTAL
Special	Combination Toilet & Storage Building		1	1	2
Special	Well Shelter		1	1	2
Special	Drilled Well	Lin Ft.	200	200	400
Special	Bulletin Board		1	1	2
Special	Pylon Sign Standard	L.F.	2	2	4
S-S-16	Park Fence	L.F.	1421	1716	3137
E-11	Water				3 ✓

* Since Prop. U.S.R. 25 Quantities have been calculated as a continuous section, these Quantities have been reduced by the amount necessary for each ramp entrance

** See Calculations.

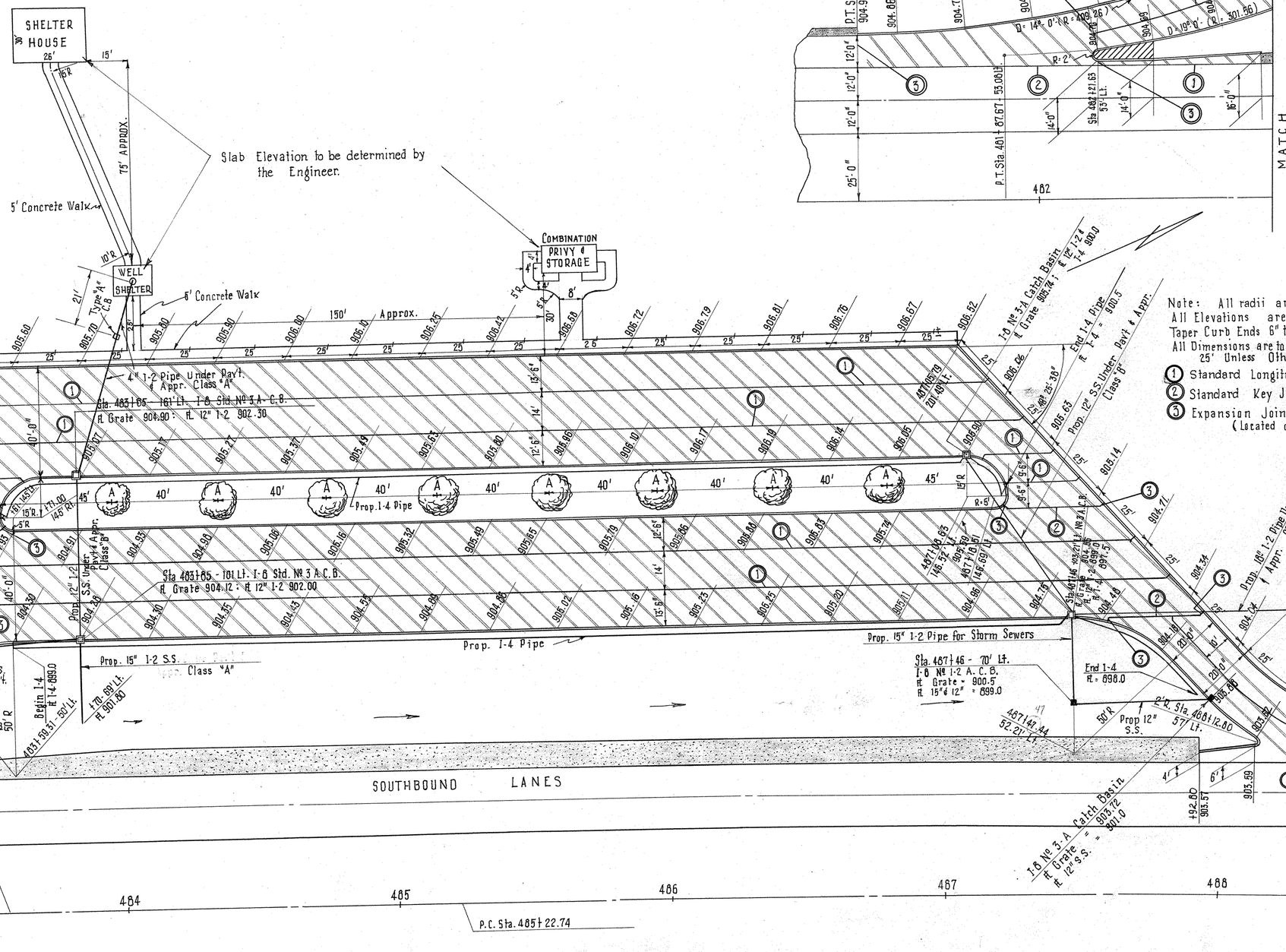
CURVE DATA
Δ = 2°-23'-41"
D = 1°-0'
T = 119.75
L = 239.47

ROADSIDE PARK STA. 481+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

375
466

AUGLAIZE COUNTY
AUG- 25 - 5.05



Note: All radii are to face of Curb.
All Elevations are to Top of Pavement, Face of Curb.
Taper Curb Ends 6" to 2" in 10'.
All Dimensions are to Face of Curb. Distance between Elev. Points 25' Unless Otherwise noted.

(1) Standard Longitudinal Joint.
(2) Standard Key Joint without Tie Bars
(3) Expansion Joint without dowels. (Located on Radial Lines)

SEE SHEET Nº 372 FOR PLANTING

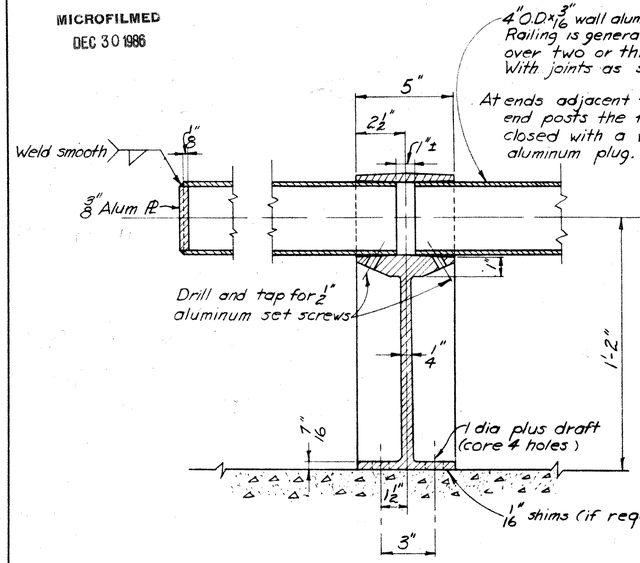
ROADSIDE PARK LEFT STA. 485+50

MICROFILMED
DEC 30 1986

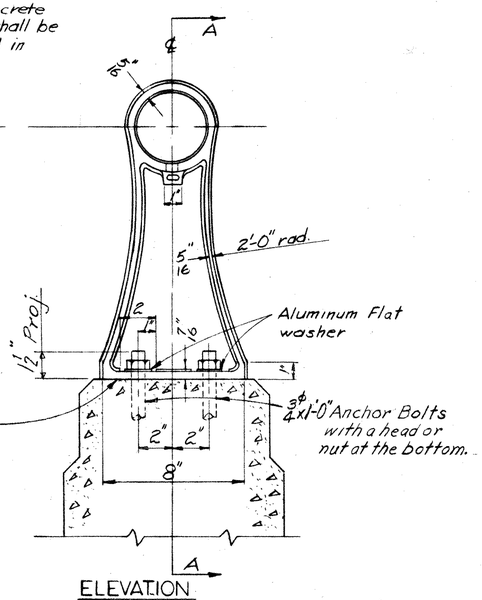
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

376
466

AUGLAIZE COUNTY
AUG-25-5.05

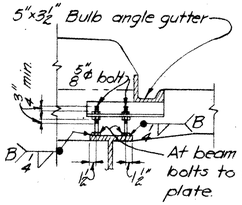


SECTION A-A

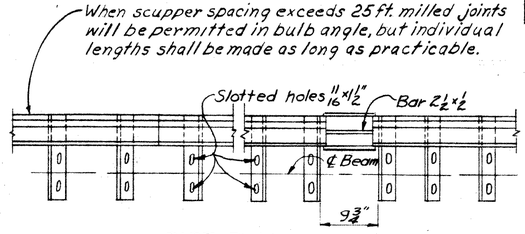


ELEVATION

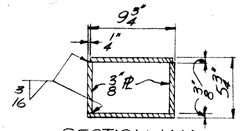
ALUMINUM RAILING POST DETAILS



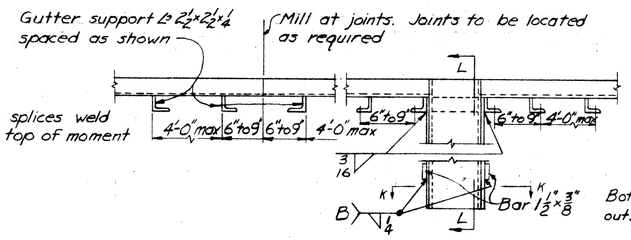
GUTTER SUPPORT
WITH MONOLITHIC SURFACE



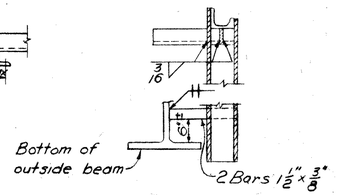
PART PLAN



SECTION K-K



REAR ELEVATION

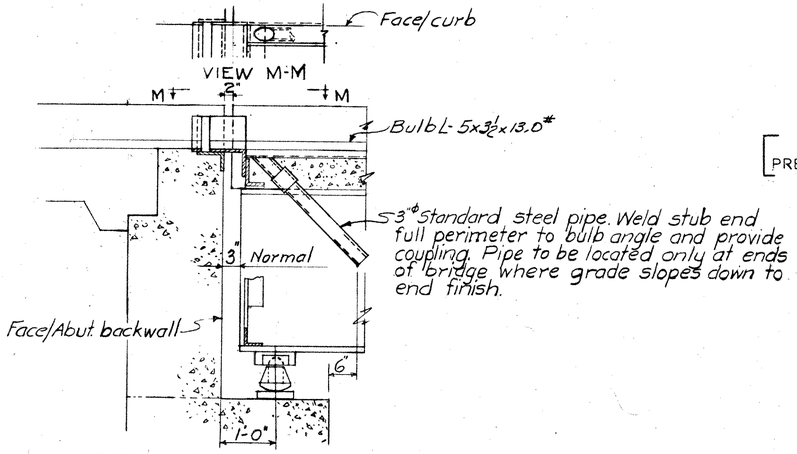


SECTION L-L

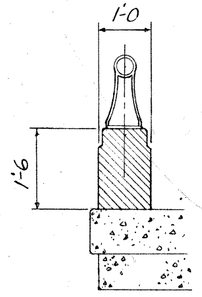
NOTES: See GENERAL PLAN & ELEVATION sheet for spacing of scuppers. Gutters shall be accurately adjusted for alignment and grade with allowance for dead load deflection, before concrete is placed.

RAILING NOTES

SHIMS shall be used where necessary for vertical alignment. They shall be of aluminum alloy, 2⅜×1/16×8" made with slots to fit around anchor bolt and permit insertion with posts in place.



SECTION AT CORNER OF BRIDGE



SECTION THROUGH PARAPET WALL
[SECTIONED AREA SHOWS LIMITS OF PREFORMED RUBBER EXPANSION JOINT FILLER]

GUTTER AND SCUPPER DETAILS

GENERAL NOTES

REFERENCE shall be made to Standard Drawings RB-1-55 dated 3-1-55; and Supplemental Specification S-114 (Aluminum for bridge railing) dated 8-30-55.

DESIGN SPECIFICATIONS: These structures conform to the requirements of "Design Specifications for Highway Structures" of the State of Ohio Department of Highways, dated 10-1-51 together with revisions thereof dated 7-15-52, 4-1-54, 2-1-55.

EXCAVATION QUANTITY includes the removal of fill material between the top of the earth bench and the bottom of the abutment.

WELDING of structual steel shall be Class "A" except as otherwise shown. Class "B" welds shown thus B▽. Any welds shown as field welds may, at the option of the Contractor, be made in the shop.

GALVANIZING of all members which are specified to be galvanized shall be as called for in Sec M-7.4(d)

PAINT, both shop and field, shall be applied by brushing. Spray application will not be permitted.

GRAVEL, if used as coarse aggregate, shall be according to Sec. M-3.93 instead of M-3.91 for Class "C" concrete in the superstructure. Gravel meeting the requirements of Sec. M-3.93 also may be used for other concrete in these structures.

NOTE: This drawing is to be used with the plans of the following bridges:

AUG-25-0517
AUG-25-0546
AUG-25-0608
AUG-25-0721
AUG-25-0877
AUG-25-1047
AUG-25-1234

INITIAL SUBMISSION DATE 8-7-56		FINAL APPROVAL DATE
REVISED	APPROVED	
9-12-56		
10-8-56		

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

RAILING POST, GUTTER AND SCUPPER DETAILS, GENERAL NOTES

AUGLAIZE CO U.S.R. 25

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RWP	HE		HOR	RWM DWP		

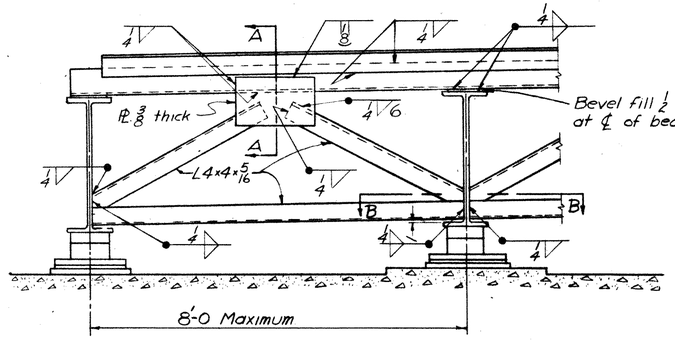
5.05-13.29

MICROFILMED
DEC 30 1986

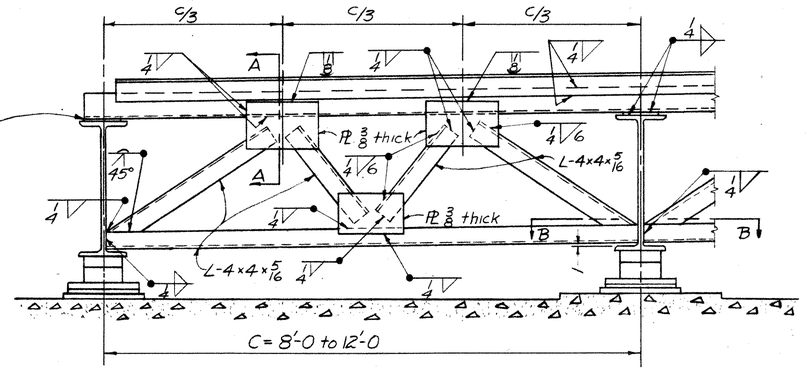
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

377
466

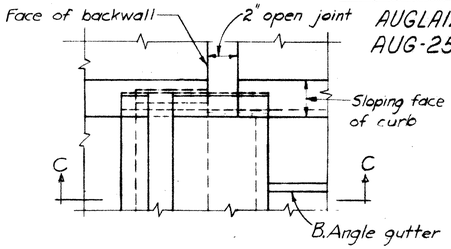
AUGLAIZE COUNTY
AUG-25-5.05



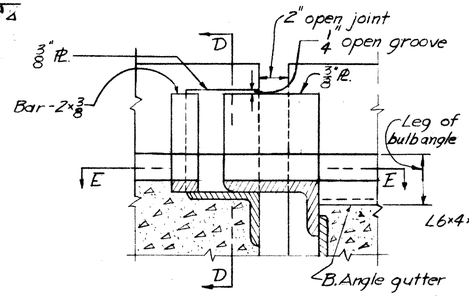
DETAIL OF END CROSSFRAME
For beam spacing of 8'-0 or less measured parallel to end finish.



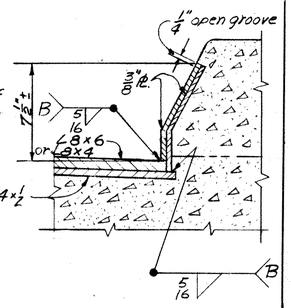
DETAIL OF END CROSSFRAME
For beam spacing of 8'-0 to 12'-0 measured parallel to end finish.



PART PLAN

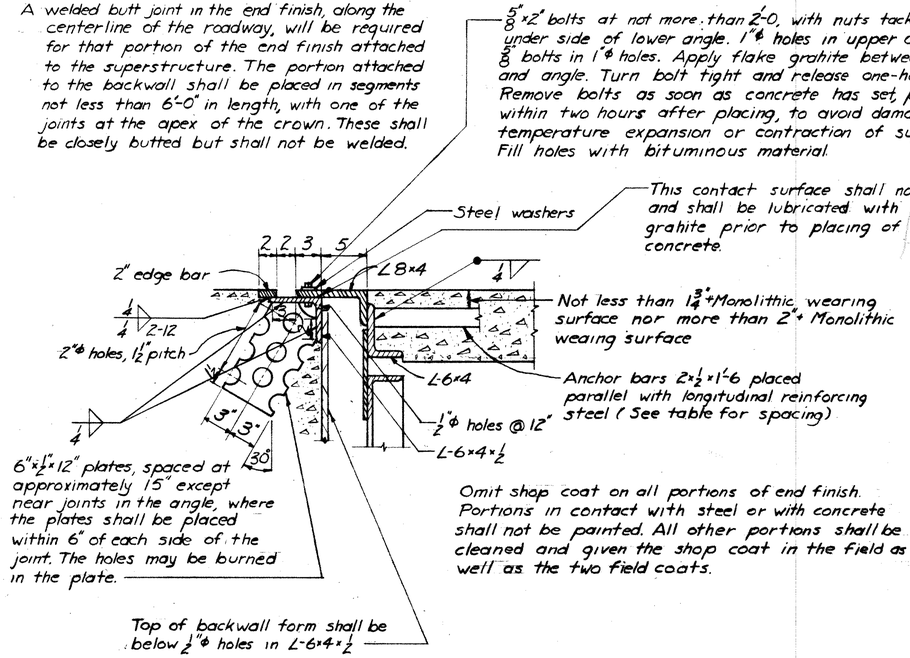


SECTION C-C



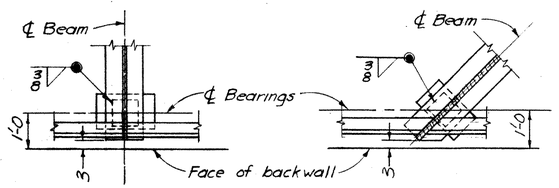
SECTION D-D

A welded butt joint in the end finish, along the centerline of the roadway, will be required for that portion of the end finish attached to the superstructure. The portion attached to the backwall shall be placed in segments not less than 6'-0" in length, with one of the joints at the apex of the crown. These shall be closely butted but shall not be welded.



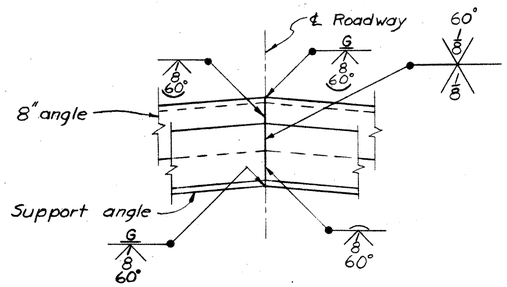
Omit shop coat on all portions of end finish. Portions in contact with steel or with concrete shall not be painted. All other portions shall be cleaned and given the shop coat in the field as well as the two field coats.

SECTION A-A
SHOWING ROADWAY END FINISH
FOR MONOLITHIC WEARING SURFACE

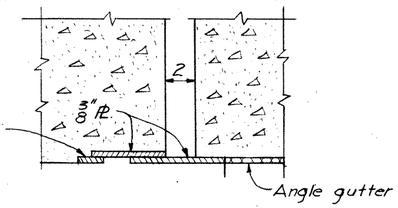


FOR SQUARE BRIDGES FOR SKEWED BRIDGES

SECTION B-B



WELDED BUTT JOINT IN SUPERSTRUCTURE
END FINISH ANGLES AT ℄ OF ROADWAY



SECTION E-E

CURB PLATE DETAILS

ROADWAY END FINISH DATA

BRIDGE NO.	THICKNESS OR SPACING OF Main angle 8x4 & 2" edge bar	2x1/2x1'-6" Anchor bars (Spacing)	Supporting angle 6x4	LOAD FREQUENCY
AUG-25-0601 -0877 -1047	5/8"	18%	7/8"	CF=30
AUG-25-1227 -0546	7/8"	15%	5/8"	CF=400

INTIAL SUBMISSION DATE 8-7-56			FINAL APPROVAL DATE
REVISED		APPROVED	
9-12-56			

VARO ENGINEERS
COLUMBUS AND NEWARK, OHIO

DETAILS OF END CROSSFRAME END FINISH AND CURB PLATES

AUGLIZE CO U.S.R. 25

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
DWP	FEE		MK	RWM DWP	

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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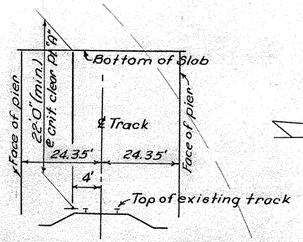
AUGLAIZE COUNTY
AUG-25-5.05
BRIDGE No. AUG-25-0517
Wapakoneta By-pass



CLEARANCE DIAGRAM
Normal ℄ Track

PROPOSED STRUCTURE

TYPE: Continuous reinforced concrete slab on reinf. conc. substructure.
SPANS: 44'-55'-44' ℅ brgs.
ROADWAY: 42'-~~30~~-0" f/f 2'-0" safety curbs
LOAD FREQ: C.F. 2000 (51)
SKEW: 21°-21'-30" L.F.
WEARING SURFACE: 1" Monolithic
APPROACH SLAB: AS-1-54 (25' long)
ALIGNMENT: Tangent

FOUNDATION SOUNDINGS:- Foundation design and foundation quantities are based on a study of rod soundings and soil-auger borings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus or in the Division Office, but the State assumes no responsibility, for the accuracy thereof.

EXIST TRACK ELEVATION

Station	Left or North Rail	Right or South Rail	Station	Left or North Rail	Right or South Rail
0+00	916.64	916.55	5+50	917.64	917.61
0+50	916.72	916.74	6+00	917.83	917.86
1+00	916.86	916.84	6+50	917.89	917.90
1+50	916.97	916.93	7+00	918.03	918.05
2+00	917.07	917.09	7+50	918.15	918.17
2+50	917.17	917.15	8+00	918.34	918.36
3+00	917.20	917.20	8+50	918.38	918.39
3+50	917.17	917.16	9+00	918.56	918.53
4+00	917.19	917.12	9+50	918.66	918.71
4+50	917.36	917.36	10+00	918.73	918.73

BENCH MARK
B.M #4 R.R. Spike in Φ 122'
Lt. of Sta 323+79
Elevation = 912.66

Approach Pavement: Proposed; T-71, 24'wide with 10'-12' berms
Future; T-71, 24'wide with 10'-12' berm and 35'median

Revised Apr. 16, 1957

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO. AUG-25-0517
U.S.R. 25 OVER N.Y.C.R.R.
AUGLAIZE CO. USR. 25
SEC. STA. 323+10.07
SCALE 1"=20'

PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
Aerial Survey	Aerial Survey	D.I.C.	D.I.C.	D.H.S.	P.E.S.

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

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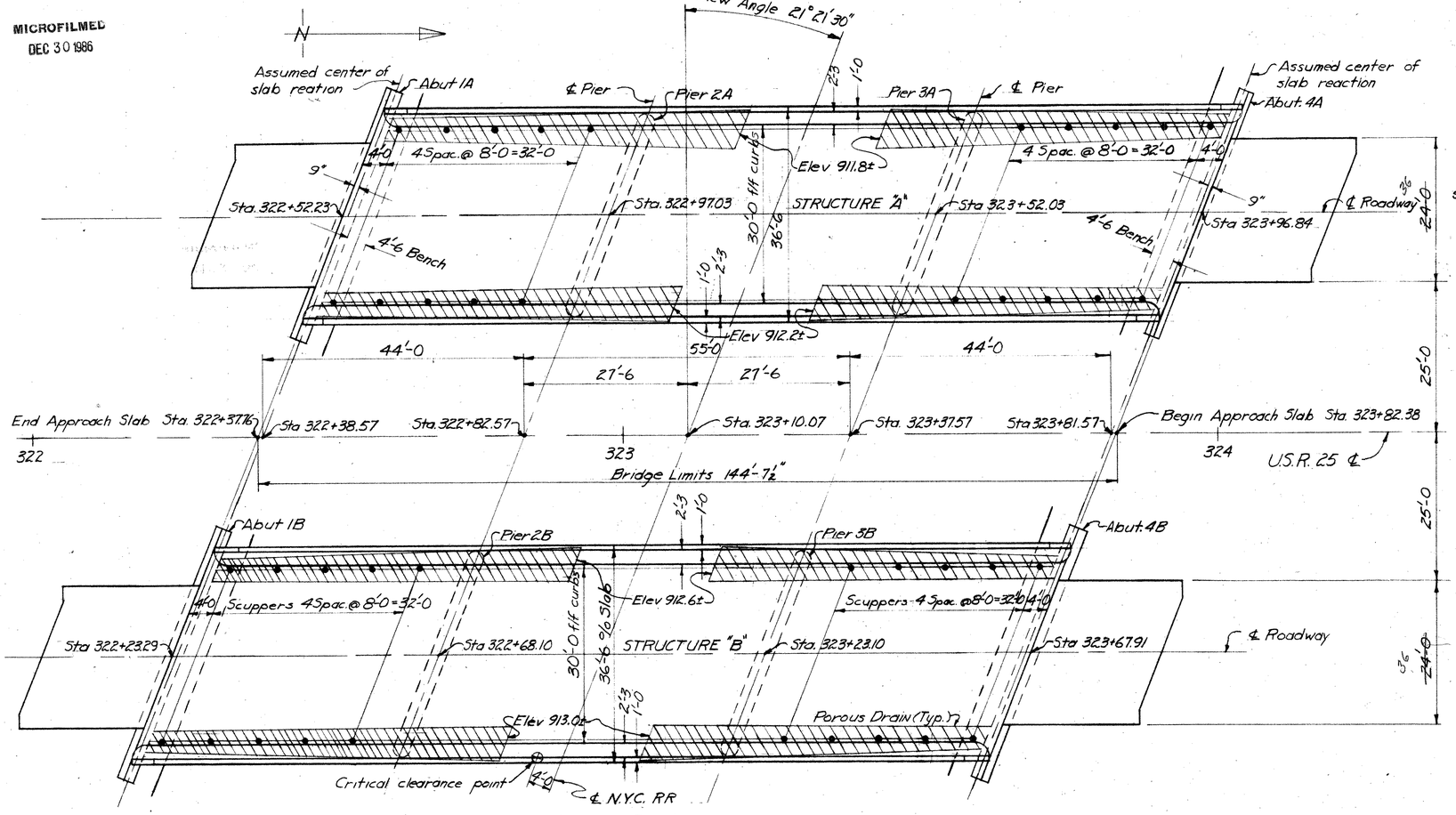
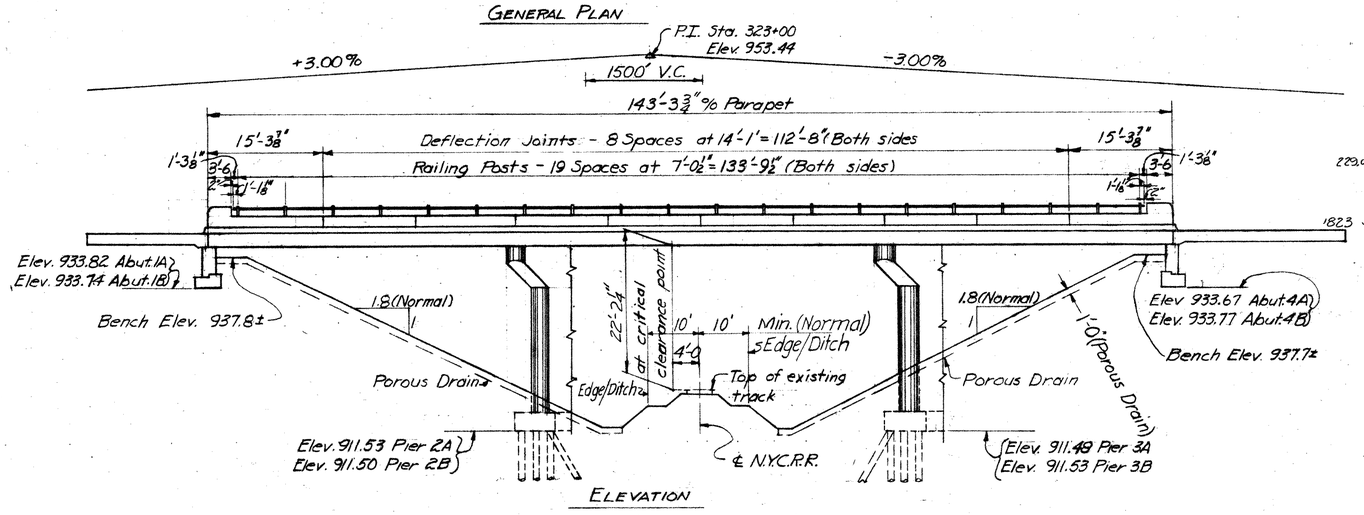
466

AUGLAIZE COUNTY
AUG-25-5.05



GENERAL PLAN



ELEVATION

GENERAL NOTES

EXCAVATION QUANITITY includes the removal of fill material between the top of the earth bench and the bottom of the abutment.

SURFACE FINISH OF CONCRETE: Railing end posts, curb faces, and fascias of deck, shall receive a rubbed surface finish. All other exposed surfaces shall be governed by the provisions of Item 511.

POROUS DRAINS, extending from face of abutment to elevations as shown in plan, shall be provided at all four corners of each bridge. The drains shall be 8 feet wide at the low end, tapering to 4 feet wide at the face of the abutment, and one foot thick.

PILES shall be driven to a minimum bearing capacity of 35 tons. The length of penetration of every pile shall be at least 80% of the estimated average pay length of the piles in the pertinent pier as indicated on the plans unless a lesser penetration is approved by the Director.

CONSTRUCTION CLEARANCE of 19 feet vertically above the top of the railroad tracks and 8 feet horizontally from the center of tracks shall be maintained at all times.

SHEETING AND BRACING: Before construction is started, six sets of prints showing details of the sheeting and bracing to be used for excavation adjacent to the railroad tracks shall be submitted to the Director for approval by the Department of Highways and by the railroad company.

ALIGNING RAILROAD TRACKS: After the Contractor has completed all excavation and backfill adjacent to the railroad tracks in compliance with Sec. E-2.04 and E-2.08 of the Construction and Material Specifications, subject to the supervision of the railroad company, nothing in Sec. E-2.04, E-2.08 or G-8.07 of the Specifications shall be construed to hold the Contractor liable for aligning and resurfacing the railroad tracks

See sheet 376 for additional General Notes.

ESTIMATED QUANTITIES (FOR 2 BRIDGES)

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER	ABUTS	PIERS	GEN'L	As Built
E2	Lump sum	Lump sum	Cofferdams, cribs, & sheeting				Lump sum	
E2	470	Cu. yds.	Unclassified excavation		190	280		
511	860	Cu. yds.	Class "C" concrete, superstructure	860				
511	210	Cu. yds.	Class "C" concrete, pier walls			210		
511	58	Cu. yds.	Class "E" concrete, abutments above footings		58			
511	138	Cu. yds.	Class "E" concrete, footings		62	76		
509 S4	228376	lbs.	Reinforcing steel	20724	8544	17663	445	C-17, 1624 229,000
509 S9	35	Sq. ft.	2" Performed expansion joint filler		22	13		
514	378	Lin. ft.	Railing (aluminum rail & supports with concrete parapet & end posts)	378				
516	Lump sum	Lump sum	First test pile				Lump sum	
518	1900	Lin. ft.	12" Cast-in-place reinforced concrete piling			1900		C-18, 1123 1823
529	28	Cu. yds.	Porous backfill		28			
529	90	Cu. yds.	Porous drains on embankment slopes				90	
529	40	Each	Scuppers - 14" ℄ Cast iron or wrought iron pipe	40				

VARO ENGINEERS
COLUMBUS, OHIO

GENERAL PLAN AND ELEVATION
NOTES AND ESTIMATED QUANTITIES
BRIDGE NO. AUG-25-0517
USR 25 OVER N.Y.C.R.R.
AUGLAIZE CO. USR. 25
STA. 323+10.07

INITIAL SUBMISSION DATE 8-1-56				FINAL APPROVAL DATE
REVISED		APPROVED		
9-15-56				

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
RWM	F.E.E.		[illegible]	[illegible]	

1A Revised As-Built H.E.R. 7-20-59

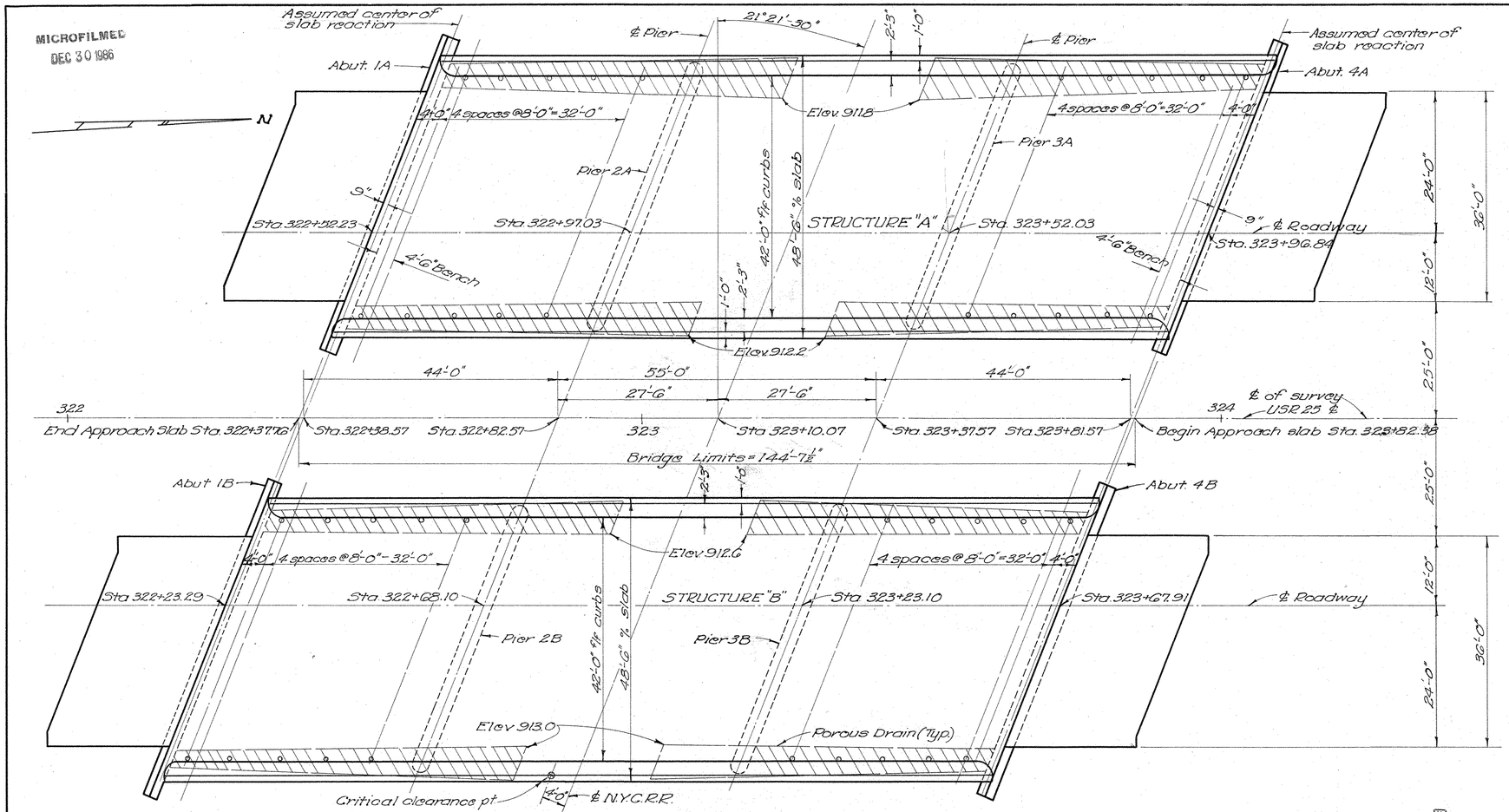
MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

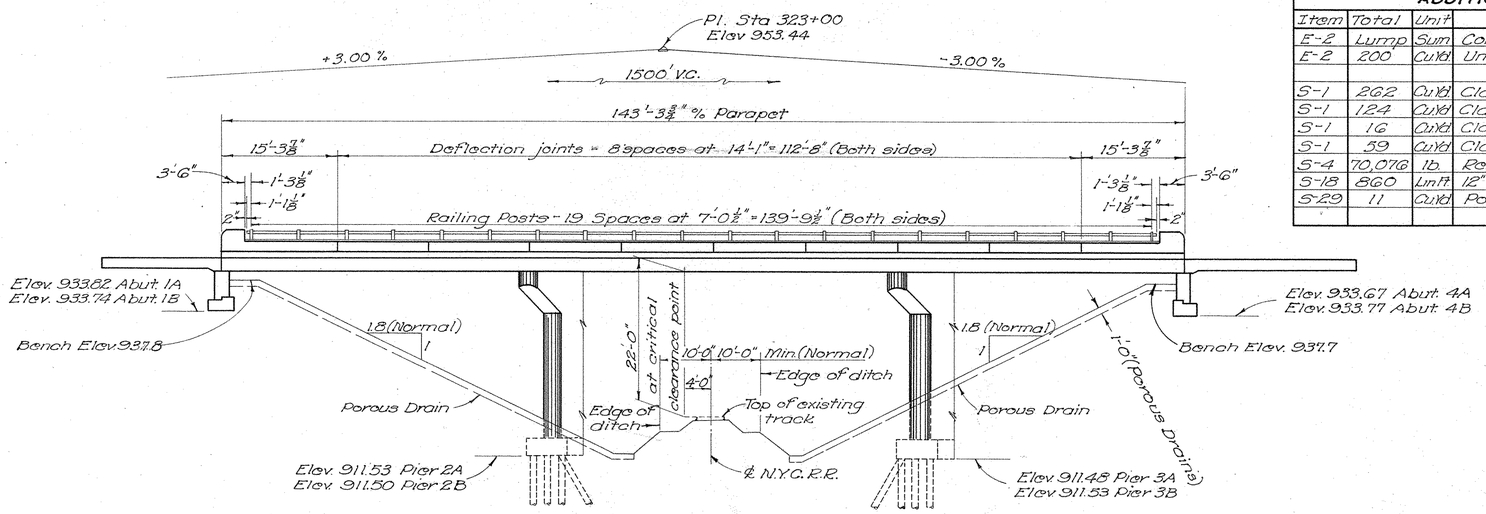
379A
466

AUGLAIZE COUNTY
Sec. No. AUG.-25-5.05

See Sheet No 379 for GENERAL NOTES and ESTIMATED QUANTITIES



GENERAL PLAN



ELEVATION

ADDITIONAL REINFORCING STEEL LIST

Mark	No.	Length	Weight	Shp
ABUTMENT				
A700	32	15'-1"	387	S
A600	16	14'-10"	356	S
A500	8	14'-6"	121	S
A501	52	4'-0"	217	S
A502	36	8'-5"	316	B
A505	36	8'-7"	322	B
A401	36	4'-0"	96	S
SUPERSTRUCTURE				
S1101	60	50'-4"	16,045	S
S1102	20	35'-11"	3,817	B
S1103	20	31'-11"	3,391	B
S1104	10	32'-6"	1,727	S
S1105	10	24'-2"	1,284	S
S1106	60	39'-3"	12,512	S
S1107	32	21'-2"	3,599	S
S1108	28	15'-10"	2,354	S
S700	280	15'-1"	8,632	S
S600	172	14'-10"	3,832	S
S602	32	23'-9"	1,142	S
S603	16	25'-10"	621	S

See Sheet No. 383 for Bending Diagrams

See Sheet No. 381-B for Additional Pier Reinforcing

These quantities are per Change Order #5

ADDITIONAL ESTIMATED QUANTITIES

Item	Total	Unit	Descriptions	Super.	Abuts	Piers	Gen'l		
E-2	Lump	Sum	Cofferdams, cribs and sheeting				Lump		
E-2	200	Cu Yd	Unclassified excavation		50	150			
S-1	262	Cu Yd	Class "C" concrete, superstructure	262					
S-1	124	Cu Yd	Class "C" concrete, pier walls			124			
S-1	16	Cu Yd	Class "E" concrete, abutment above footings		16				
S-1	59	Cu Yd	Class "E" concrete, footings		16	43			
S-4	70,076	lb.	Reinforcing steel	58,956	2,415	8,705			
S-18	860	Lin Ft	12" Cast-in-place reinforced concrete piles			860			
S-29	11	Cu Yd	Porous backfill		11				

THIS SHEET SUPPLEMENTS SHEET No. 379

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

2

GENERAL PLAN & ELEVATION
ADDITIONAL ESTIMATED QUANTITIES & ADDITIONAL REINFORCING STEEL LIST
BRIDGE No. AUG-25-0517
US R. 25 OVER N.Y.C.R.R.
AUGLAIZE COUNTY STA. 323+10.07

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	N.J.B.	rhd	KED			

Revised As-Built H.E.R. 7-20-59

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

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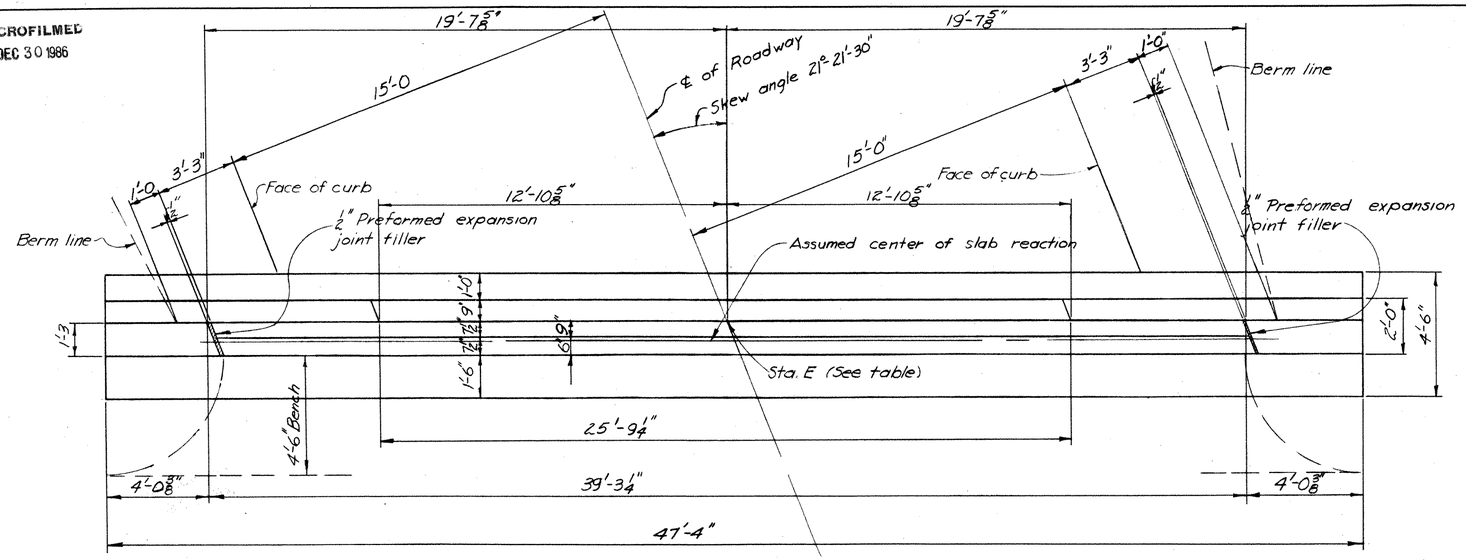
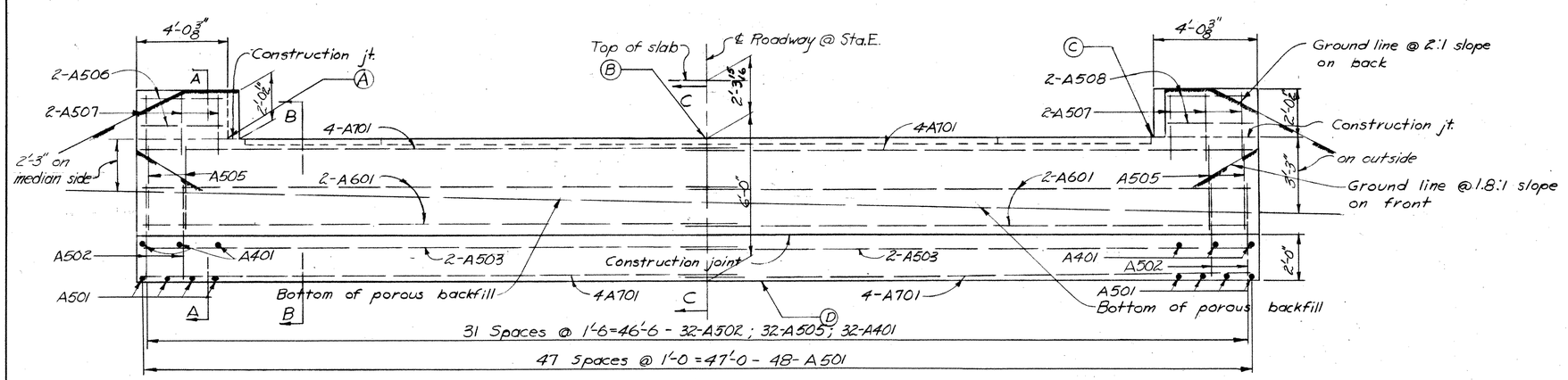
466

AUGLAIZE COUNTY
AUG.-25-5.05



PLAN



ELEVATION

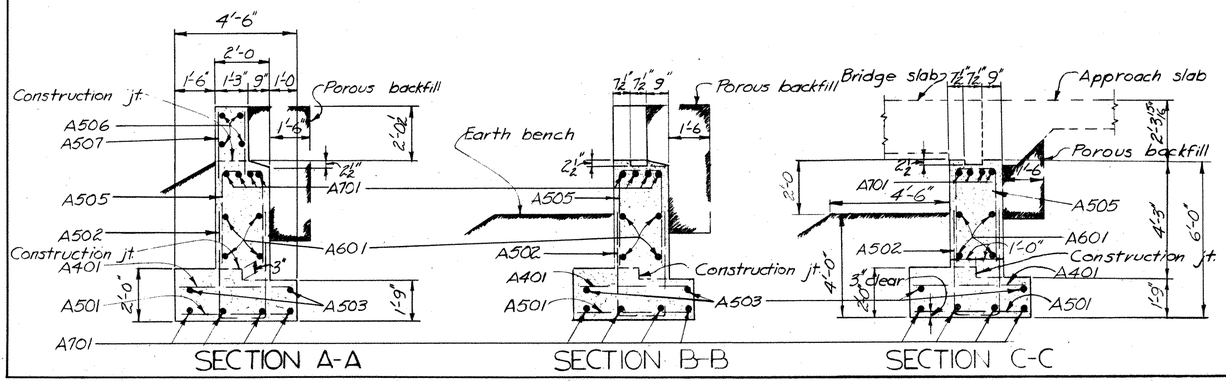


TABLE OF ELEVATIONS AND STATIONS

LOCATION OF ABUT.	A	B	C	D	STA. E
1B	939.73	939.74	939.75	933.74	322+23.29
1A	939.81	939.82	939.83	933.82	322+52.23
4B	939.75	939.77	939.79	933.77	323+67.91
4A	939.65	939.67	939.69	933.67	323+96.84

NOTES

CONCRETE shall be Class "E" and payment will be made on this basis, but Class "C" concrete may be used for any and all parts of the abutments.
PROCEDURE: The embankment shall be placed and compacted to the height of the earth bench, after which excavation shall be made for the abutment.
REINFORCING STEEL: Clearance from the face of the concrete to the reinforcing steel shall be 2" unless noted.
SEE "GENERAL PLAN AND ELEVATION", SHEET 379 for location of abutments.
POROUS BACKFILL shall extend upward to the approach slab and to the surface of the earth shoulders, and outward to the surface of the embankment slopes.

INITIAL SUBMISSION DATE 8-7-56			FINAL APPROVAL DATE
REVISED		APPROVED	
9-15-56			

VARO ENGINEERS
COLUMBUS AND NEWARK, OHIO

ABUTMENT DETAILS

BRIDGE NO. AUG-25-0517
USR 25 OVER N.Y.C.R.R.

AUGLAIZE COUNTY — USR 25
STA. 323+10.07

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RWM	FEE		HJR	DWG		

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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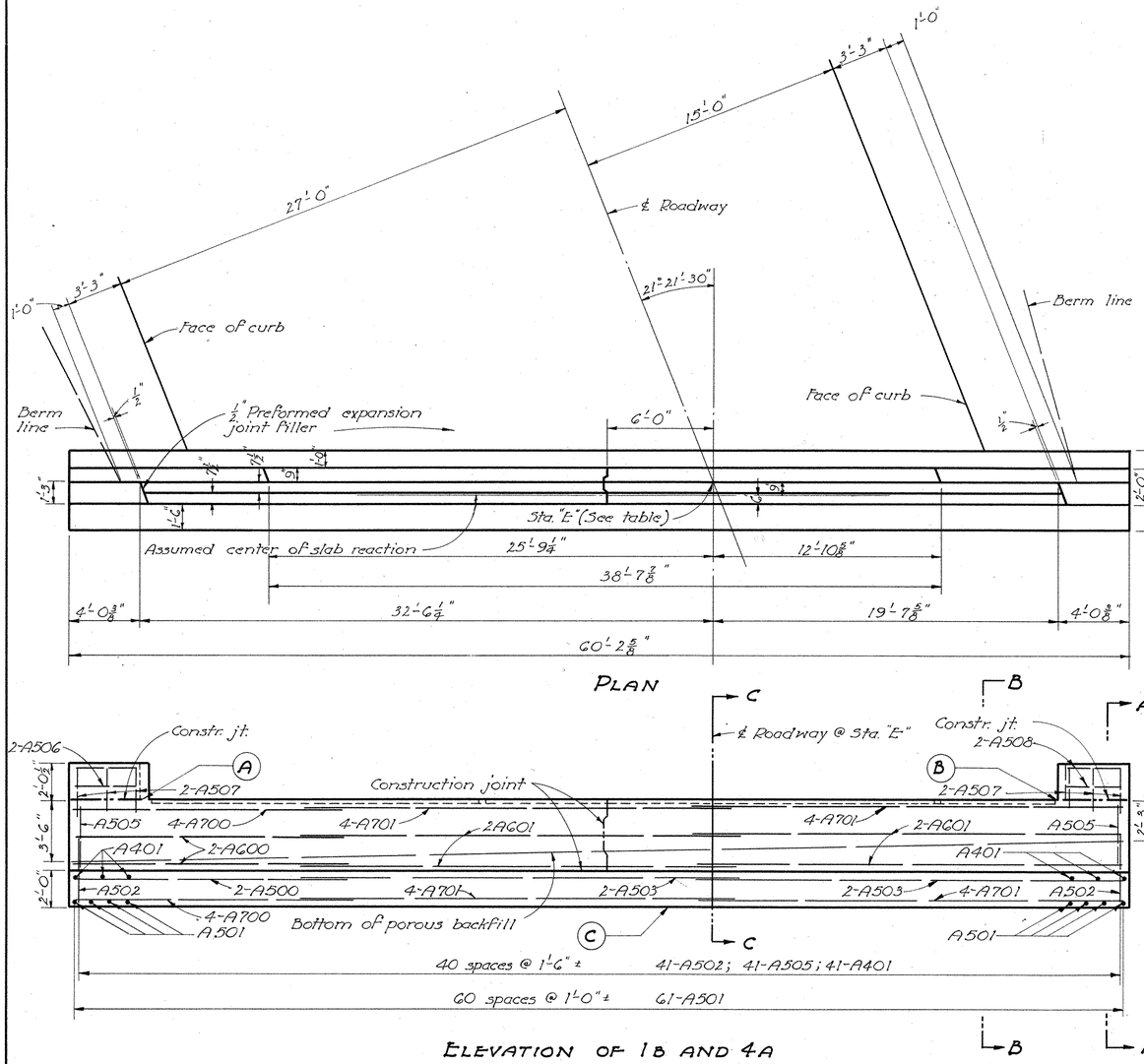
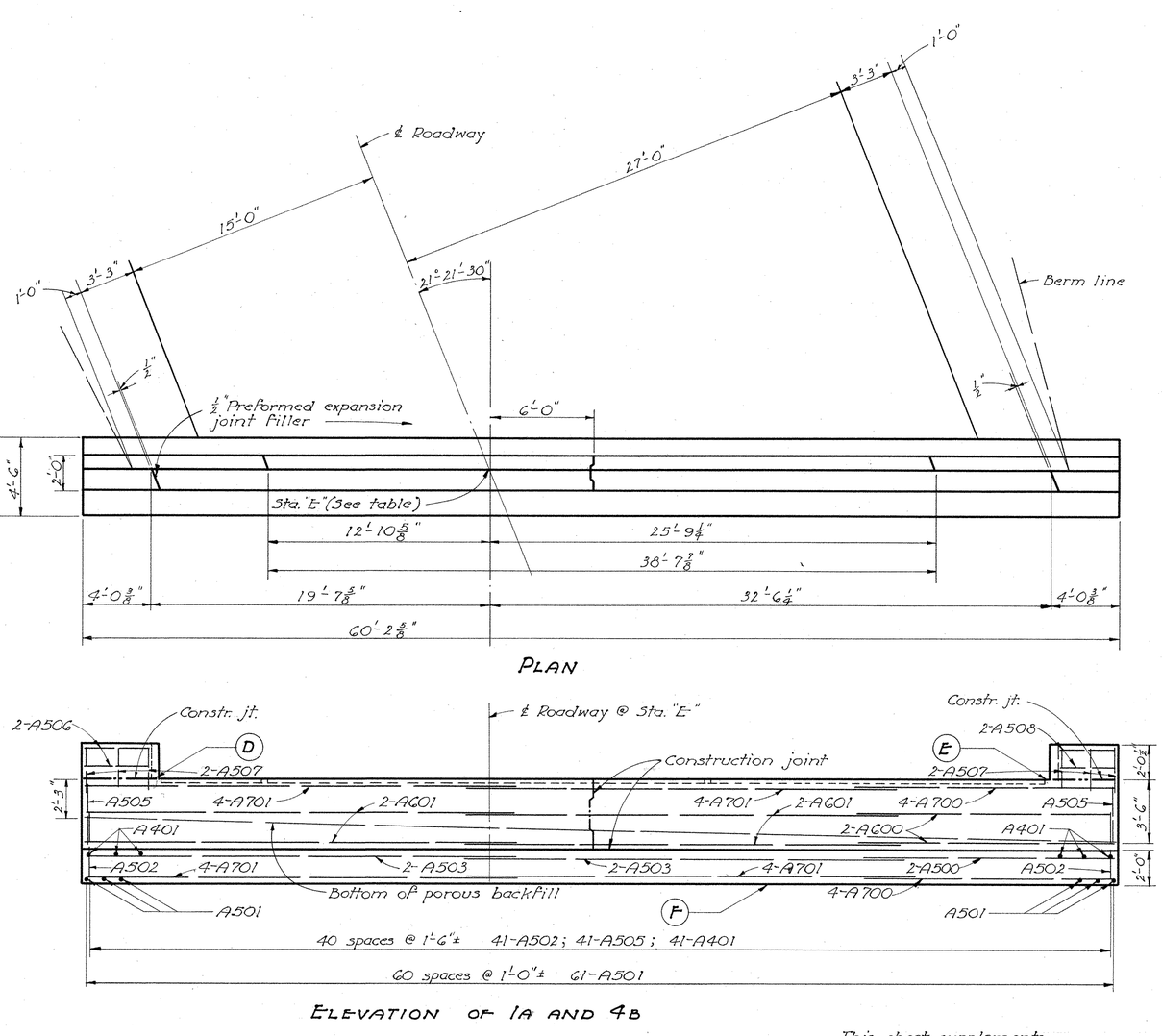
AUGLAIZE COUNTY
SEC. No. AUG-25-5.05





This sheet supplements sheet No. 380.

For dimensions, reinforcing steel, notes or other pertinent details not shown see sheet No. 380.

TABLE OF ELEVATIONS AND STATIONS

LOCATION OF ABUT.	(A)	(B)	(C)	(D)	(E)	(F)	STA. E
1B	939.52	939.75	933.74				322+23.29
4A	939.44	939.69	933.67				323+96.84
1A				939.81	939.65	933.82	322+52.23
4B				939.75	939.61	933.77	323+67.91

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

3

ABUTMENT DETAILS

BRIDGE NO. AUG-25-0517
U.S.R. 25 over N.Y.C.R.R.

AUGLAIZE COUNTY Sta. 323+10.07

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	N.J.B.	Grasselli	KED			

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DEC 30 1986

FED. RD DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

AUGLAIZE COUNTY
AUG. 25-5.05

381
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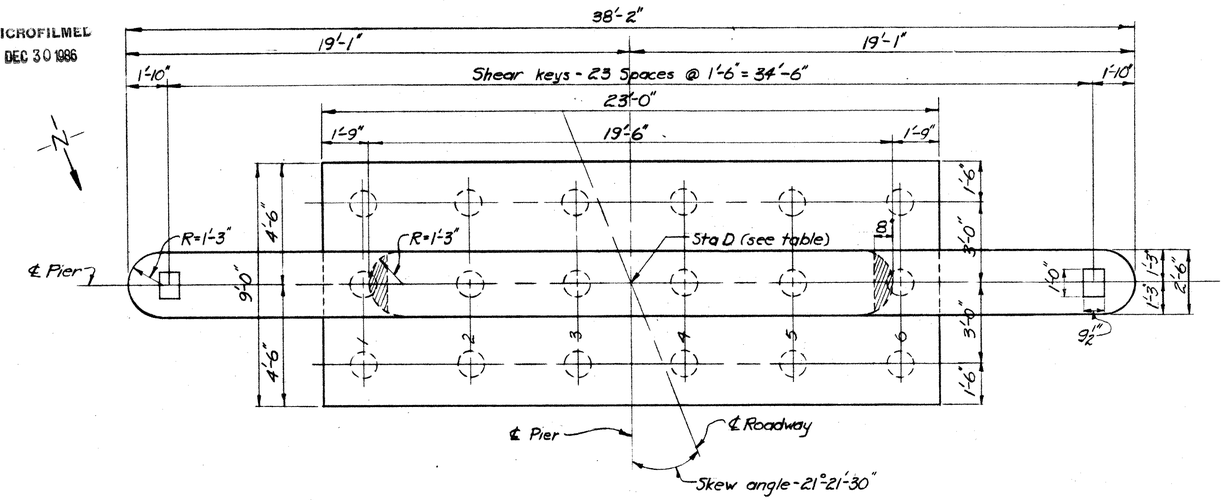
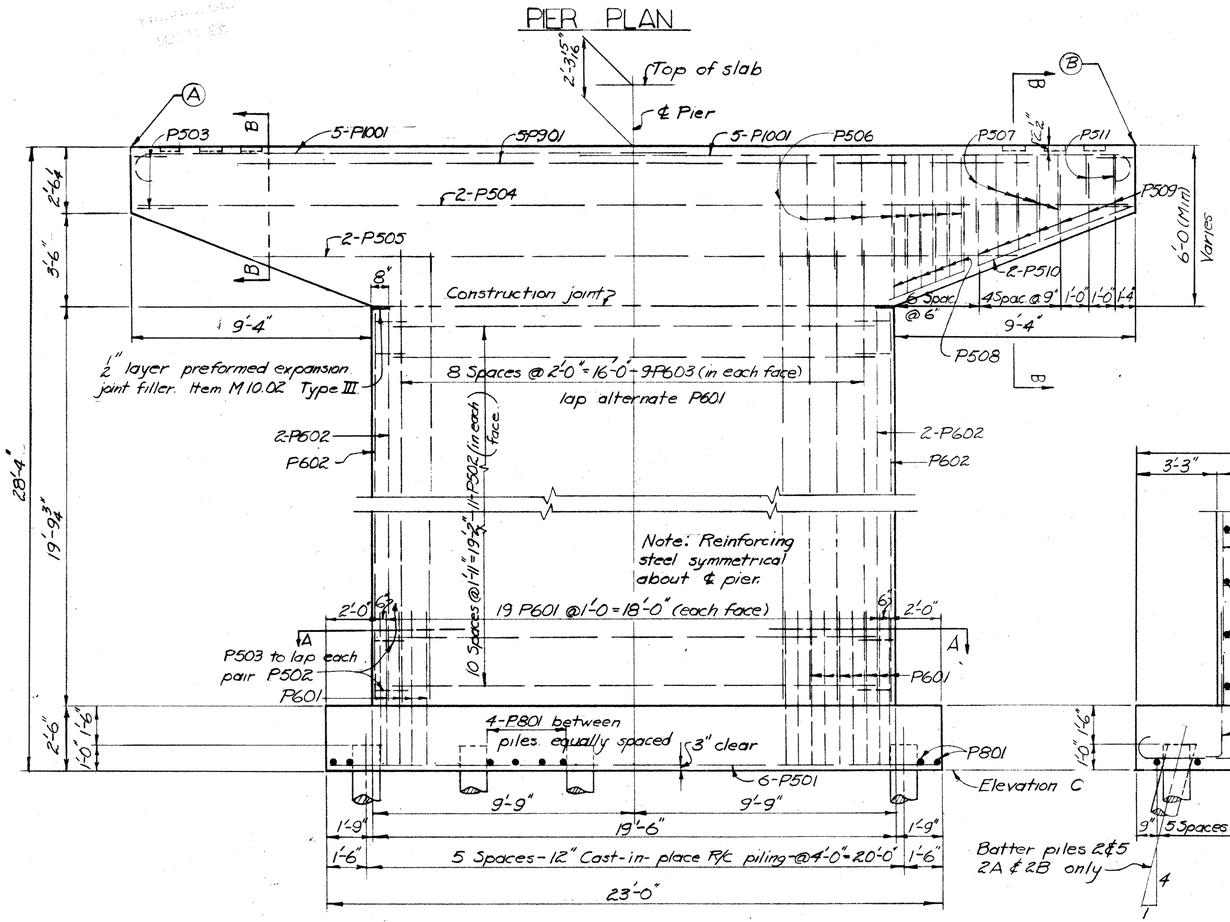
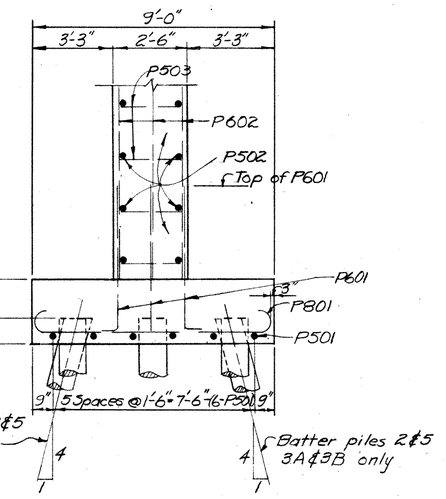


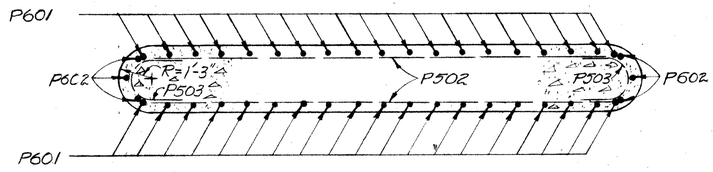
PIER PLAN



PIER ELEVATION



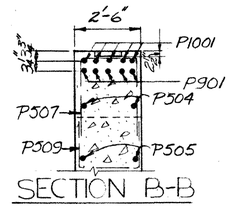
PART END VIEW OF PIER



SECTION A-A

TABLE OF ELEVATIONS, STATIONS

ELEVATIONS				STA
LOCATION OF PIER	A	B	C	D
3A	939.81	939.79	911.48	323+52.03
3B	939.86	939.85	911.53	323+23.10
2A	939.86	939.86	911.53	322+97.03
2B	939.83	939.85	911.50	322+68.10



SECTION B-B

NOTE:
See Sheet 379 for location of piers.

CLEARANCE of reinforcing steel from face of concrete shall be 2" unless noted.

VARO ENGINEERS
COLUMBUS AND NEWARK, OHIO

PIER DETAILS
BRIDGE NO. AUG. 25-0517
USR 25 OVER N.Y.C.R.R.
AUGLAIZE COUNTY USR 25
STA. 323+10.07

INITIAL SUBMISSION DATE 8-7-56				FINAL APPROVAL DATE
REVISED		APPROVED		
9-15-56				

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
RWM	FEE		[illegible]	[illegible]	

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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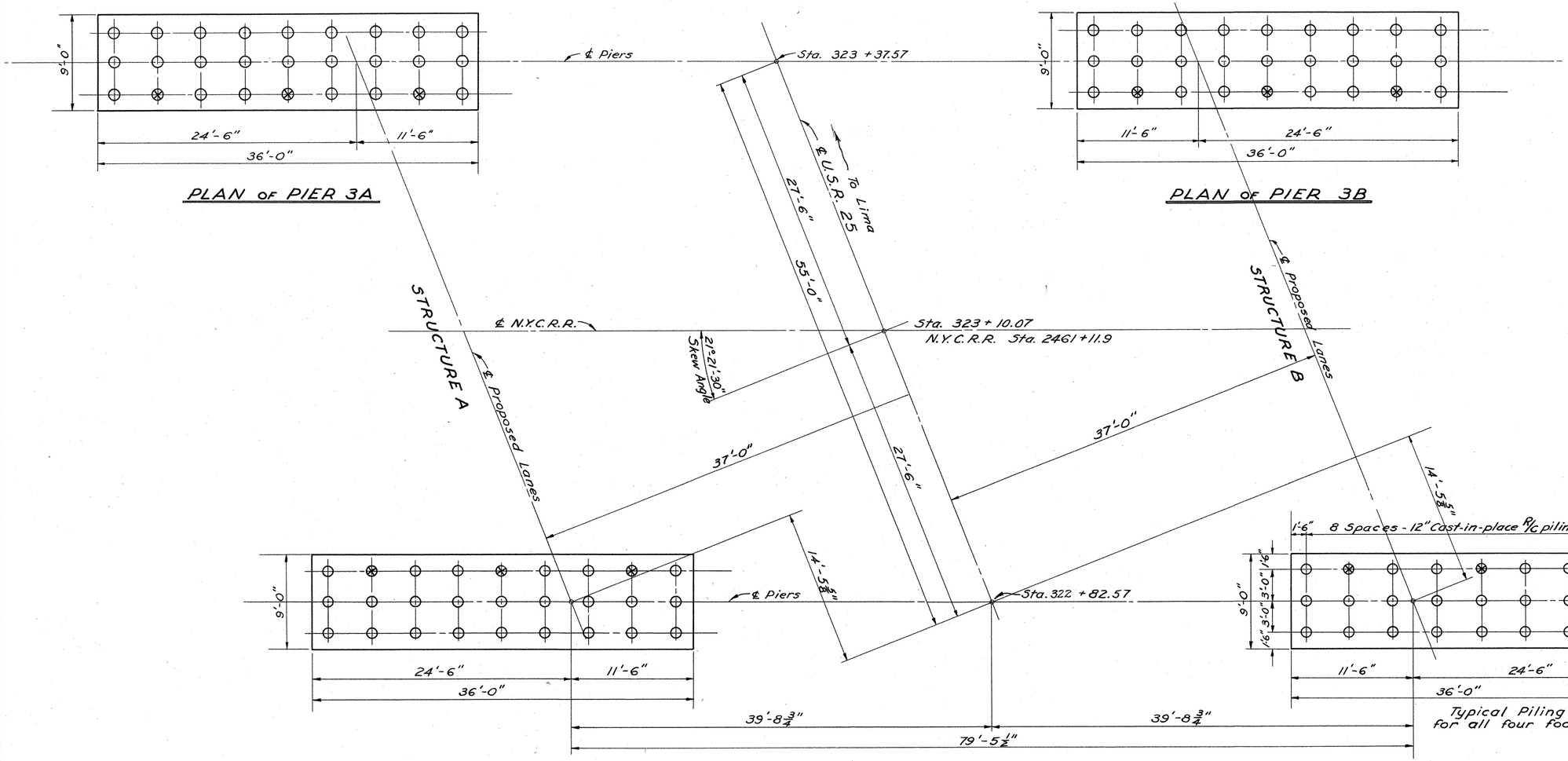
AUGLAIZE COUNTY
SEC. No. AUG.-25-5.05



PIER FOOTING AND PILING LAYOUT

"⊗" Indicates piling battered 1:4

EXPLANATORY NOTE:

Revised PIER FOOTING and PILING LAYOUT required to provide for an additional 12 foot traffic lane on the right side of each superstructure.

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

4

REVISED PIER FOOTINGS

BRIDGE NO. AUG-25-0517
U.S.R. 25 OVER N.Y.C.R.R.
AUGLAIZE CO. U.S.R. 25
Sta. 323 + 10.07

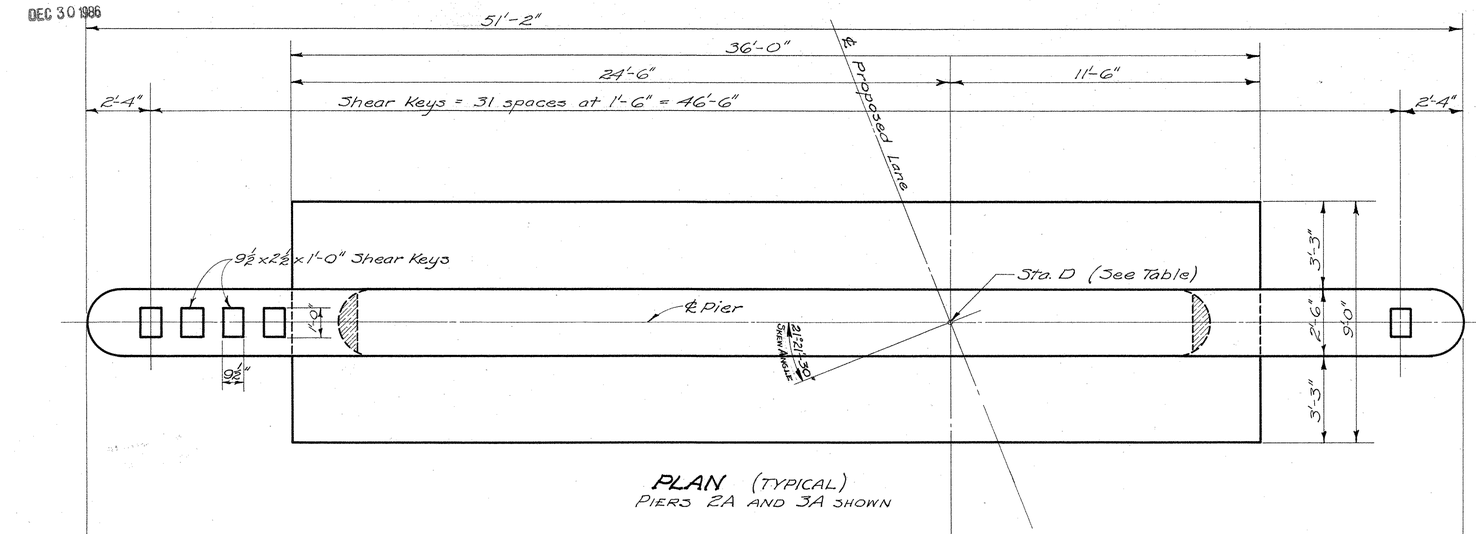
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	K.G.R.	J.G.W.	TPS			

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

381 B
466

AUGLAIZE COUNTY
SEC. NO. AUG-25-5.05

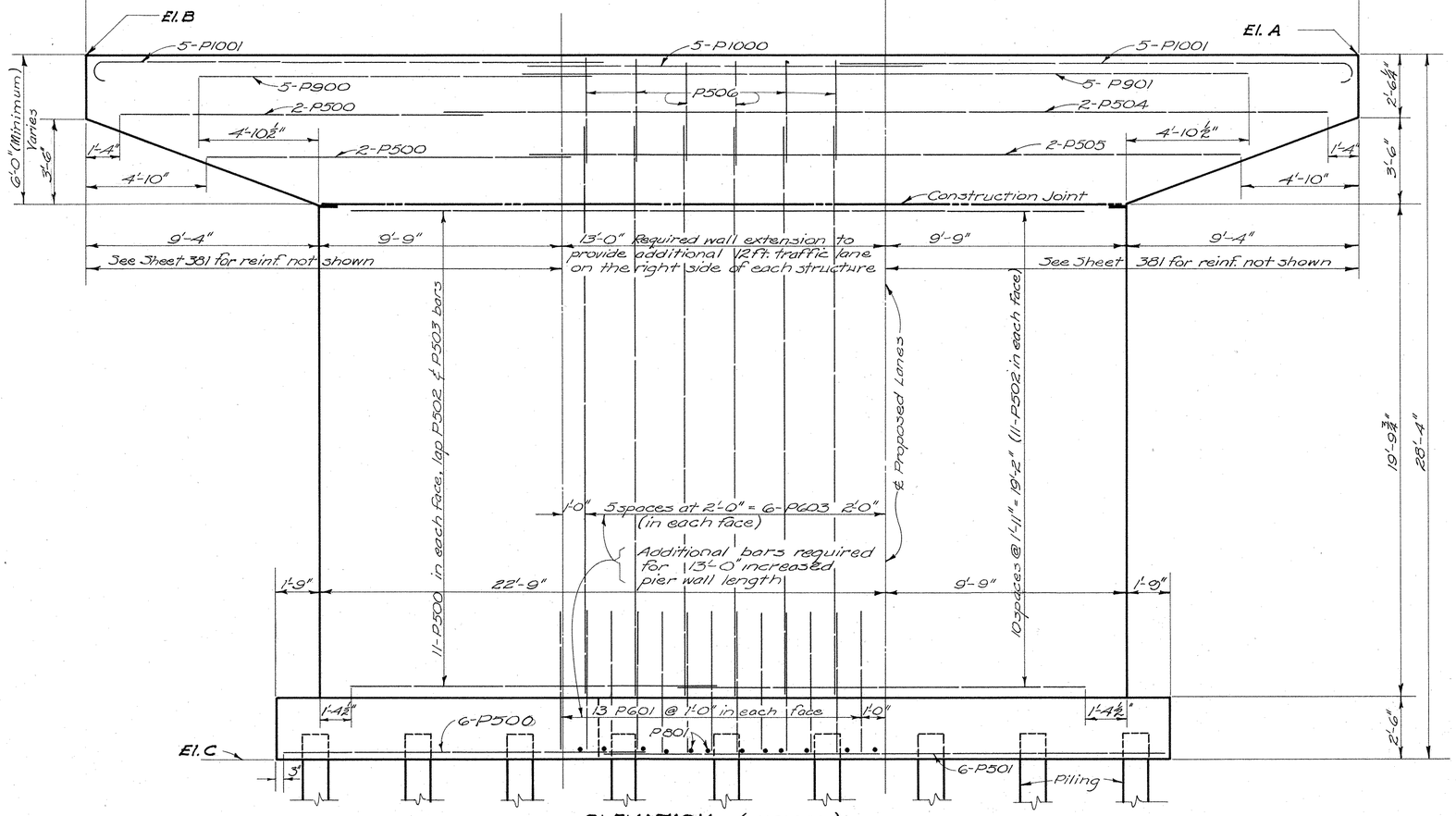


PLAN (TYPICAL)
PIERS 2A AND 3A SHOWN

TABLE OF ELEVATIONS AND STATIONS				
	ELEVATIONS			STATION
LOCATION OF PIER	A	B	C	D
3A	939.81	939.61	911.48	323+52.03
3B	939.86	939.67	911.53	323+23.10
2A	939.86	939.67	911.53	322+97.03
2B	939.83	939.63	911.50	322+68.10

ADDITIONAL PIER REINFORCING				
Mark	No.	Length	Weight	Shape
P1000	20	16'-2"	4,392	St.
P900	20	15'-10"	1,076	St.
P801	48	10'-8"	1,367	Bt.
P601	104	6'-6"	1,015	Bt.
P603	48	23'-0"	1,658	St.
P500	128	14'-7"	1,946	St.
P506	24	10'-0"	251	Bt.
			9706#	

See Sheet 383 for Bending Diagrams.



ELEVATION (TYPICAL)
PIERS 2A AND 3A SHOWN

EXPLANATORY NOTE

PIER DETAILS revised to provide for an additional 12 foot traffic lane on the right side of each superstructure.

For details not shown see Sheet No. 381.

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

REVISED PIER DETAILS

BRIDGE No. AUG-25-0517
U.S.R. 25 OVER N.Y.C.R.R.

AUGLAIZE CO. U.S.R. 25
Sta. 323+10.07

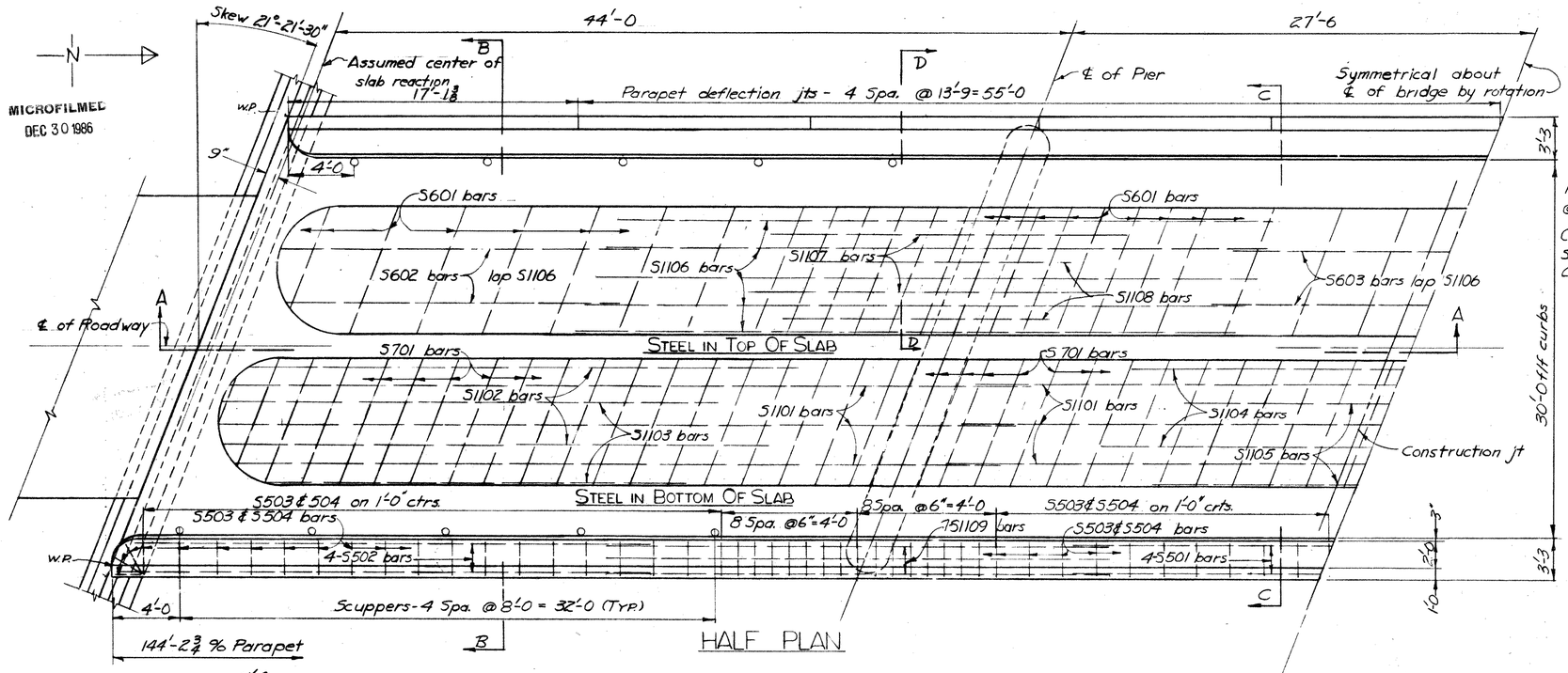
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	K.E.D.	D. Gossman	T.R.			

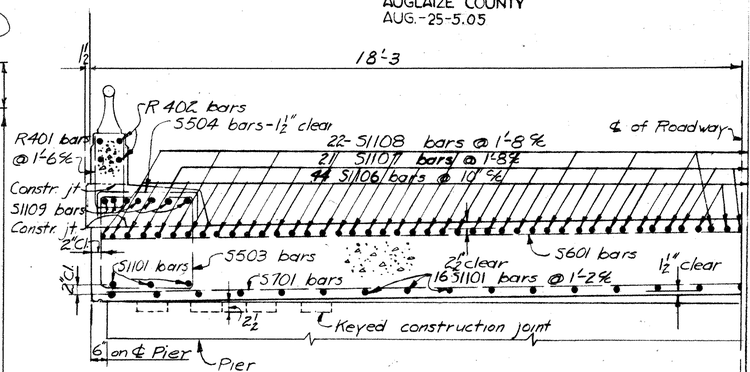
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

382
466

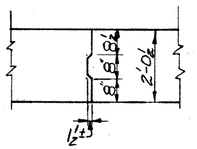
AUGLAIZE COUNTY
AUG.-25-5.05

MICROFILMED
DEC 30 1986

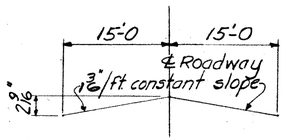




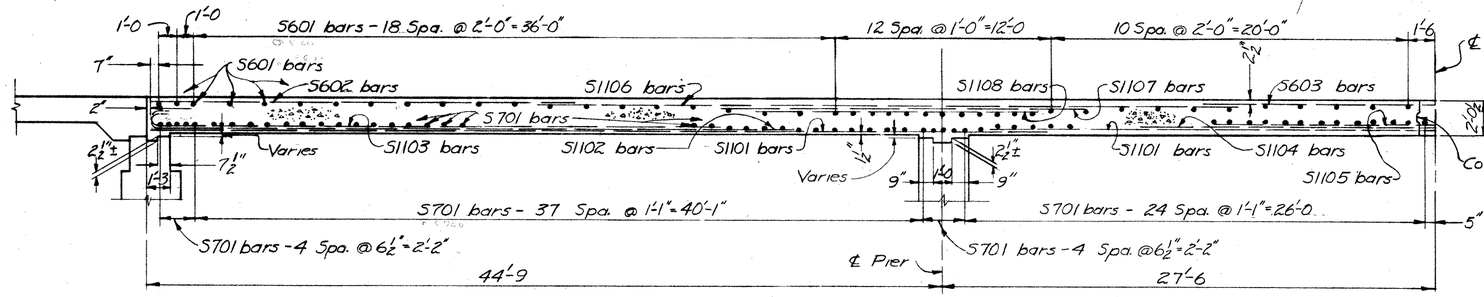
SECTION D-D



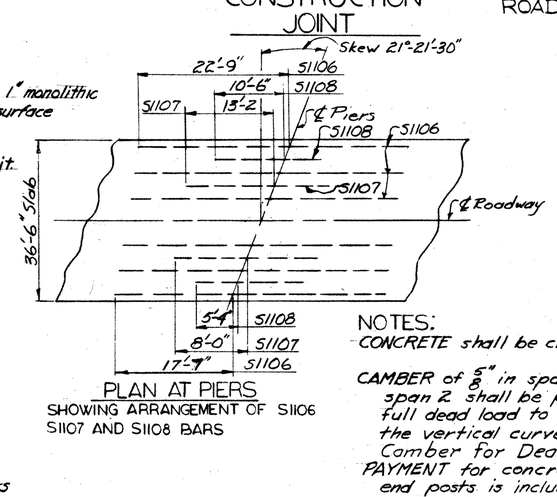
CONSTRUCTION JOINT



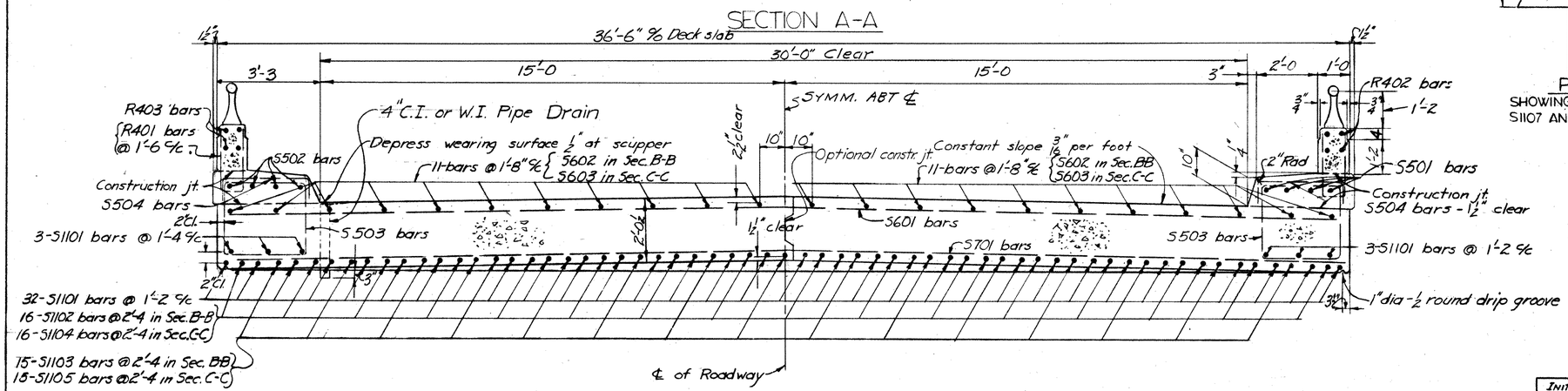
ROADWAY CROWN



SECTION A-A



PLAN AT PIERS
SHOWING ARRANGEMENT OF S1106 S1107 AND S1108 BARS



SECTIONS B-B AND C-C

NOTES:
CONCRETE shall be class "C."

CAMBER of 5/8" in spans 1 and 3 and 7/8" in span 2 shall be provided under full dead load to coincide with the vertical curve of the bridge. Camber for Dead Load = 1/500 Span
PAYMENT for concrete parapet and end posts is included in the price per lin. ft. for item 5-14.

VARO ENGINEERS
COLUMBUS AND NEWARK, OHIO

SUPERSTRUCTURE DETAILS
BRIDGE NO. AUG-25-0517
USR25 OVER N.Y.C.R.R.

AUGLAIZE CO USR 25
STA 323+10.07

INITIAL SUBMISSION DATE 8-7-56				FINAL APPROVAL DATE
REVISED		APPROVED		
9-15-56				

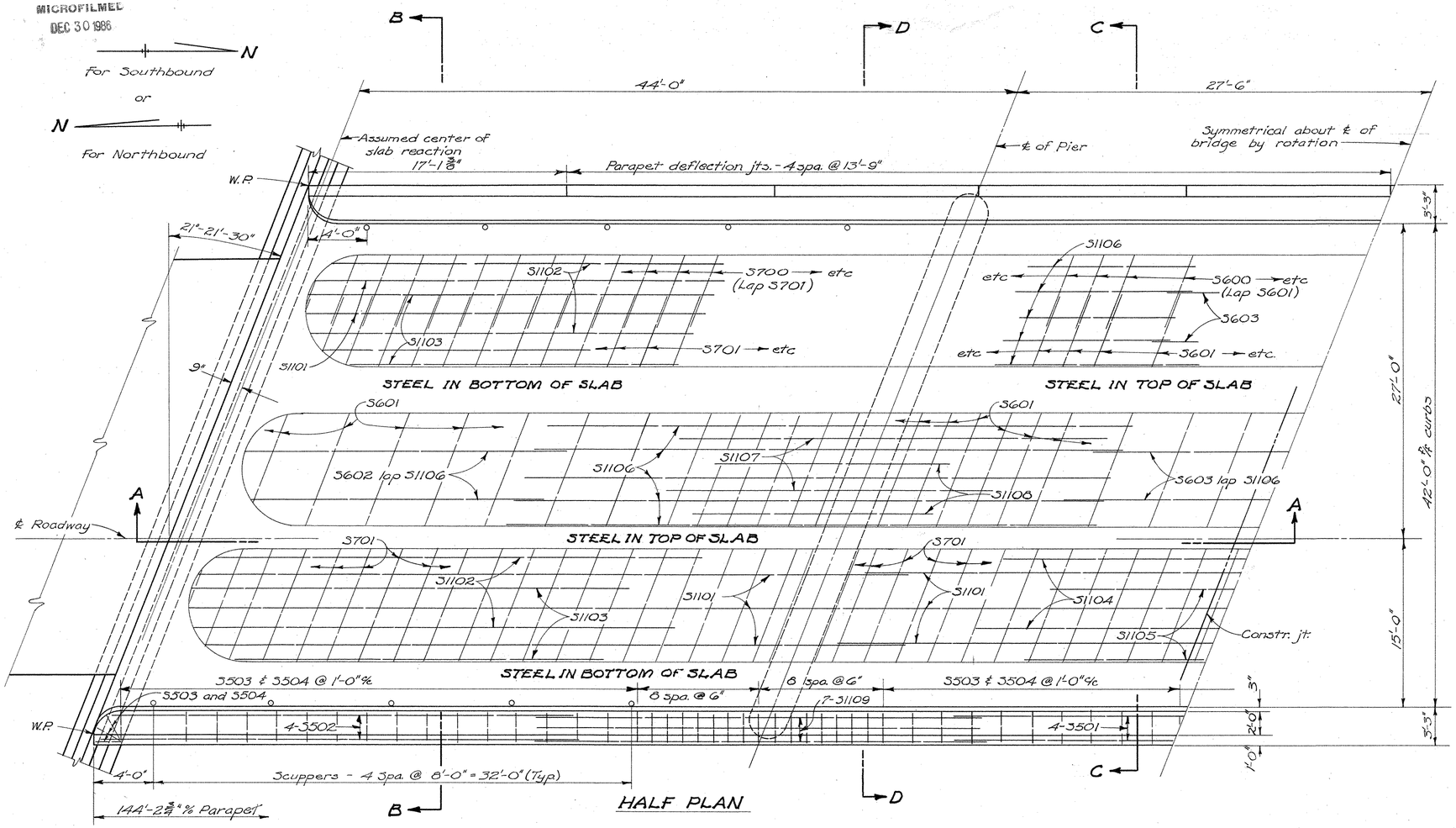
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
R.W.M	FEE		MK	AWP	

MICROFILMED
DEC 30 1986

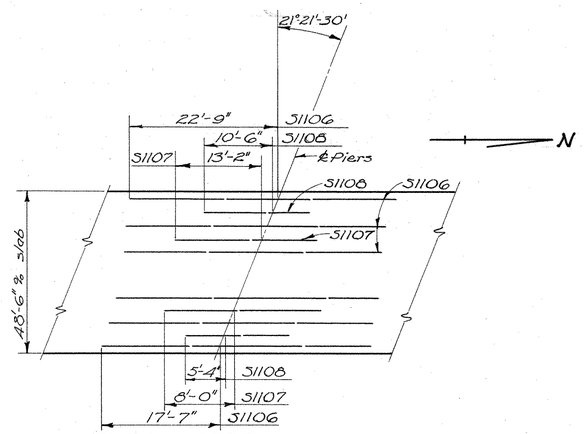
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

382-A
4G6

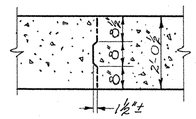
AUGLAIZE COUNTY
SEC. NO. AUG-25-5.05



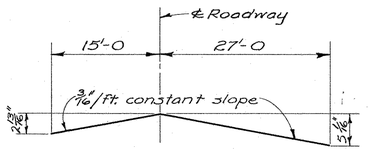
HALF PLAN



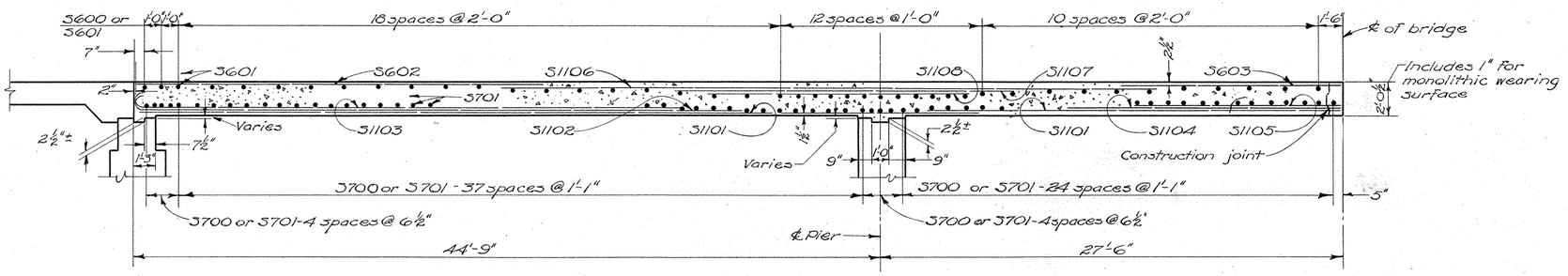
PLAN AT PIERS
Showing arrangement of 31106 31107 and 31108 bars.



CONSTRUCTION JOINT



ROADWAY CROWN



SECTION A-A

NOTES:

CONCRETE shall be class "C"

CAMBER of 5/8" in spans 1 & 3 and 3/8" in span 2 shall be provided under full dead load to coincide with the vertical curve of the bridge Camber for Dead Load = 800 Span.

PAYMENT for concrete parapet and end posts is included in the price per lin. ft. for item 3-14.

For Sections B-B, C-C and D-D see sheet 382-B

This sheet supersedes Sheet No. 382.

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

SUPERSTRUCTURE DETAILS

BRIDGE No. AUG-25-0517
U.S.R. 25 OVER N.Y.C.R.R.

AUGLAIZE COUNTY STA. 323 + 10.07

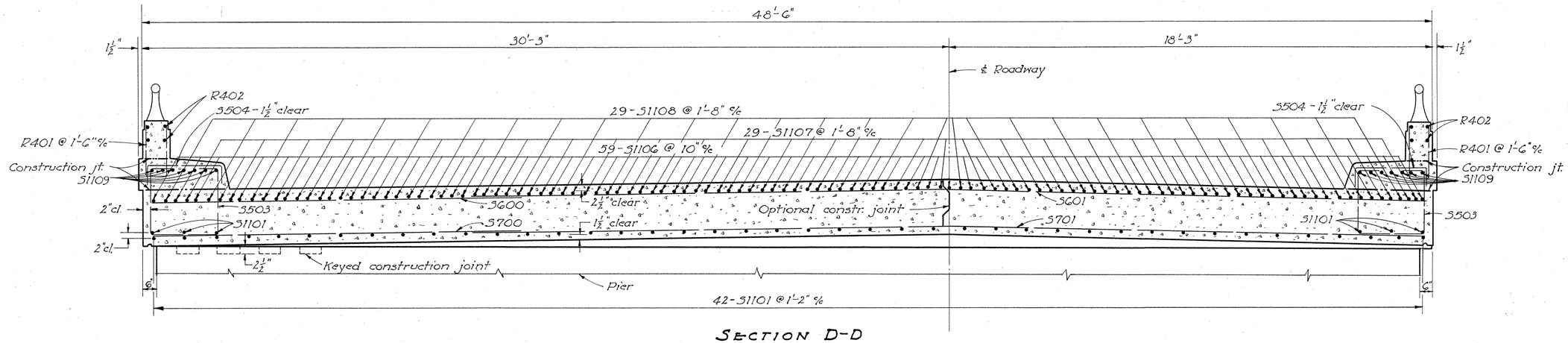
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	N.J.B.		K.E.D.			

MICROFILMED
DEC 30 1986

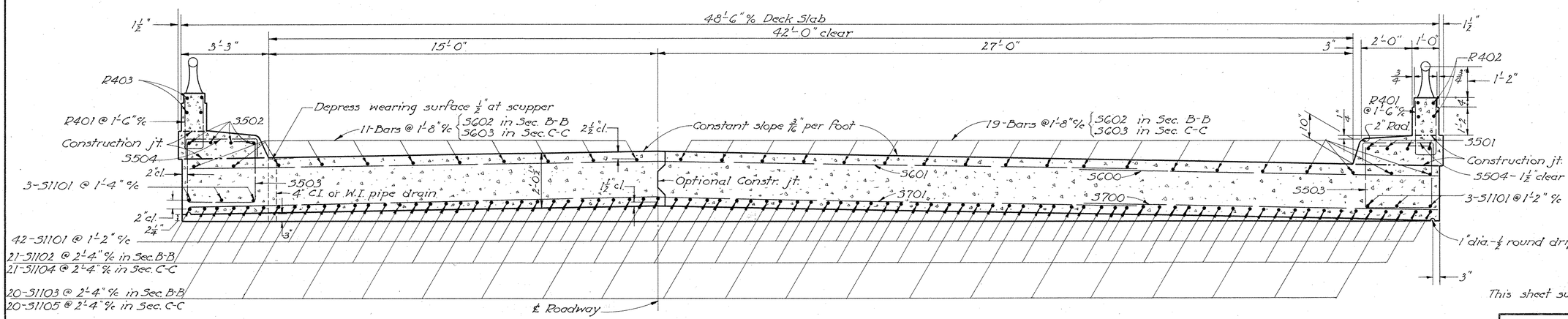
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

382-B
466

AUGLAIZE COUNTY
SEC NO AUG.-25-5.05



SECTION D-D



SECTIONS B-B AND C-C

For additional superstructure details see sheet No. 382-A

This sheet supersedes Sheet No. 382

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

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SUPERSTRUCTURE SECTIONS B-B; C-C AND D-D

BRIDGE NO. AUG-25-0517
U.S.R. 25 OVER N.Y.C.R.R.

AUGLAIZE COUNTY STA. 323+10.07

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
	N.J.B.	Grasselli	K.E.D.			

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

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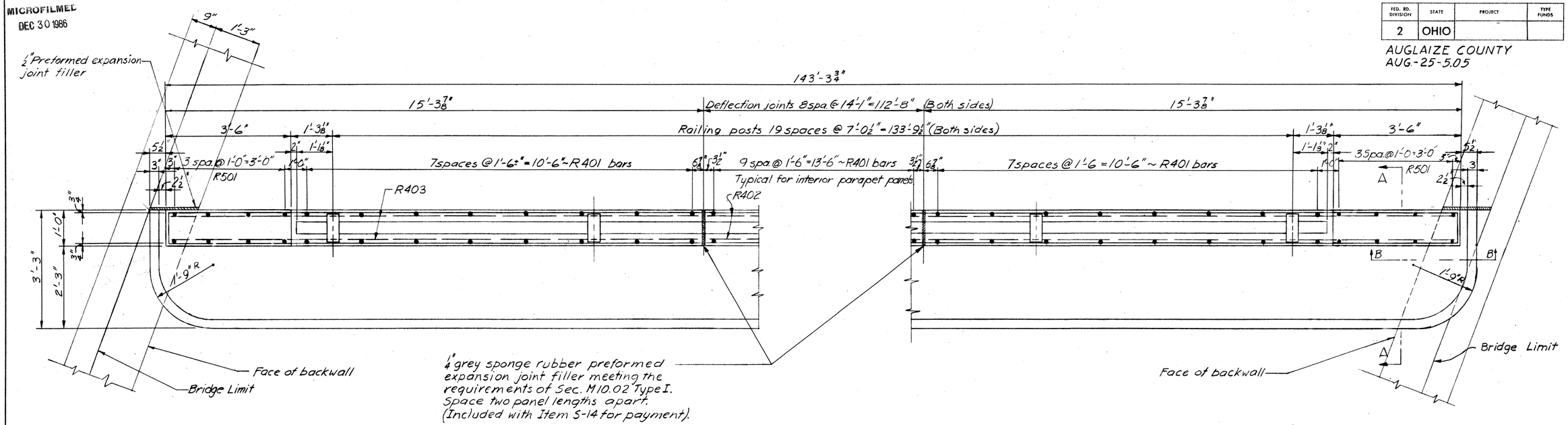
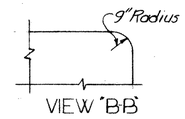
AUGLAIZE COUNTY
AUG.-25-5.05



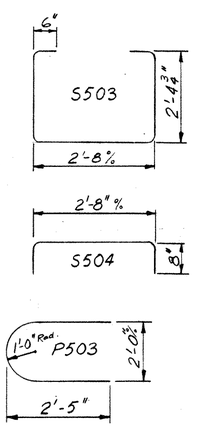
PARAPET DETAILS



REINFORCING STEEL LIST (FOR 2 BRIDGES)

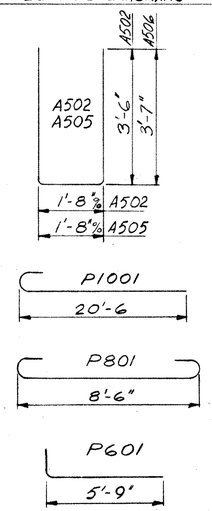
MARK	No	LENGTH	WEIGHT	SHP
Superstructure				
S1101	228	50'-4"	60972	S
S1102	64	35'-11"	12212	B
S1103	60	31'-11"	10174	B
S1104	32	32'-6"	5526	S
S1105	30	24'-2"	3852	S
S1106	176	39'-3"	36702	S
S1107	84	21'-2"	9447	S
S1108	88	15'-10"	7403	S
S1109	56	30'-3"	9000	S
S701	280	38'-8"	22129	S
S601	172	38'-8"	9989	S
S602	88	23'-9"	3185	S
S603	44	25'-10"	1707	S
S501	16	27'-11"	465	S
S502	32	31'-1"	1037	S
S503	656	7'-10"	5359	B
S504	656	3'-9"	2565	B
Abutments				
A701	64	24'-9"	3238	S
A601	32	24'-6"	1176	S
A501	192	4'-0	800	S

Bending Diagrams



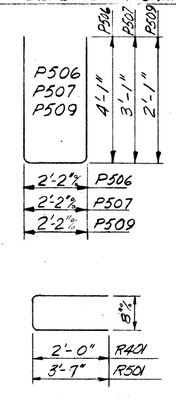
MARK	No	LENGTH	WEIGHT	SHP
A502	128	8'-5"	1124	B
A503	16	24'-3"	403	S
A504	16	3'-3"	54	S
A505	128	8'-7"	1145	B
A506	16	3'-9"	62	S
A507	48	4'-0"	200	S
A401	128	4'-0"	342	S
Piers				
P1001	40	21'-9"	3744	B
P901	20	29'-3"	1989 2135	S
P801	96	10'-8"	1666	B
P601	160	6'-6"	1560	B
P602	24	19'-6"	703	S
P603	72	23'-0"	2487	S
P501	24	22'-6"	564	S
P502	88	16'-9"	1536	S
P503	104	6'-0"	651	B
P504	8	35'-6"	296	S
P505	8	28'-6"	240	S
P506	84	10'-0"	876	B
P507	88	8'-0"	734	B
P508	16	10'-0"	167	S
P509	72	6'-0	450	B

Bending Diagrams



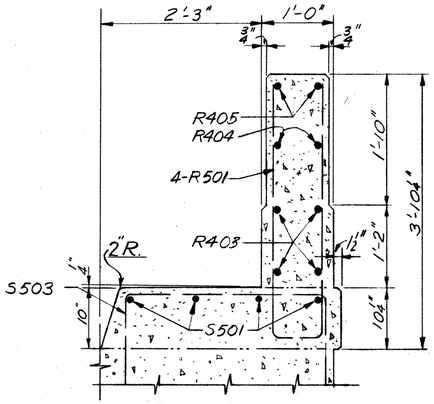
MARK	No.	LENGTH	WEIGHT	SHP.
Railing				
R501	32	7'-8"	*	B
R401	384	4'-5"	*	B
R402	128	13'-9"	*	S
R403	32	15'-0"	*	S
R404	16	3'-2"	*	S
R405	16	5'-6"	*	B
Replacement bars				
RE11	8	7'-7"	320	S
RE10	1	7'-2"	31	S
RE 9	1	6'-10"	28	S
RE 8	1	6'-6"	17	S
RE 7	2	6-2"	26	S
RE 6	2	5'-11"	18	S
RE 5	1	5'-7"	6	S
RE 4	1	5'-3"	4	S

Bending Diagrams



* Included in Item 5-14 for payment.

BAR SIZE is indicated in the bar mark. The first digit indicates the bar size number. For example, A701 is a No. 7 size bar.



SECTION A-A

INITIAL SUBMISSION DATE 9-17-56		FINAL APPROVAL DATE
REVISED	APPROVED	

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

SUPERSTRUCTURE DETAILS & REINFORCING STEEL LIST

BRIDGE No AUG-25-0517
U.S.R. 25 OVER N.Y.C.R.R.
AUGLAIZE COUNTY U.S.R. 25
STA. 323+10.07

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
AWB	L.L.		RWM	HHR		

Revised As-Built H.E.R. 7-20-59

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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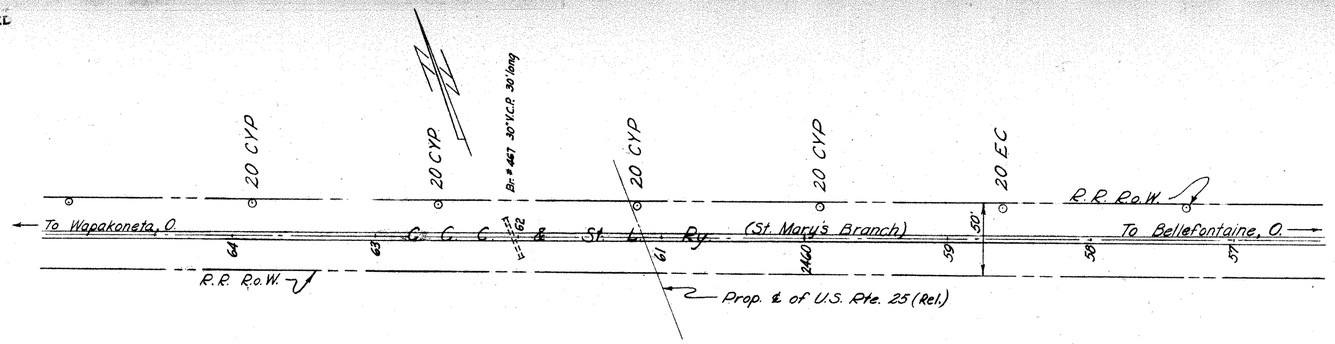
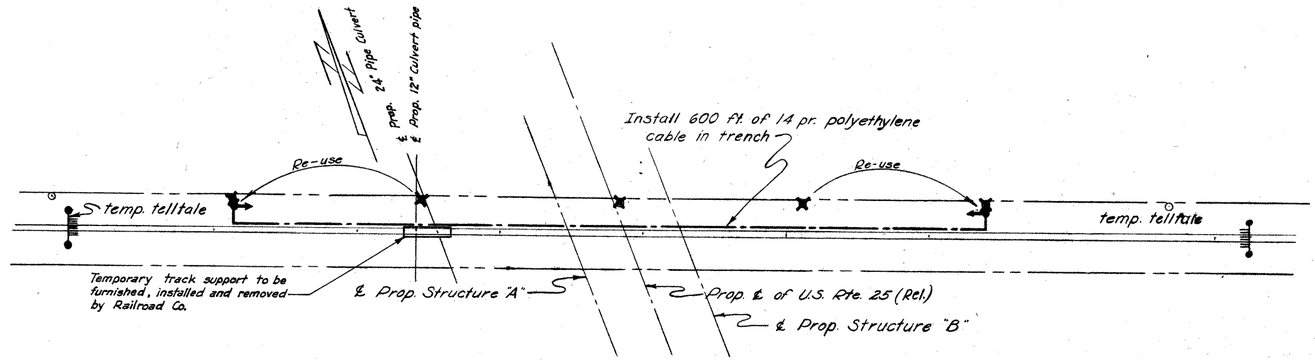
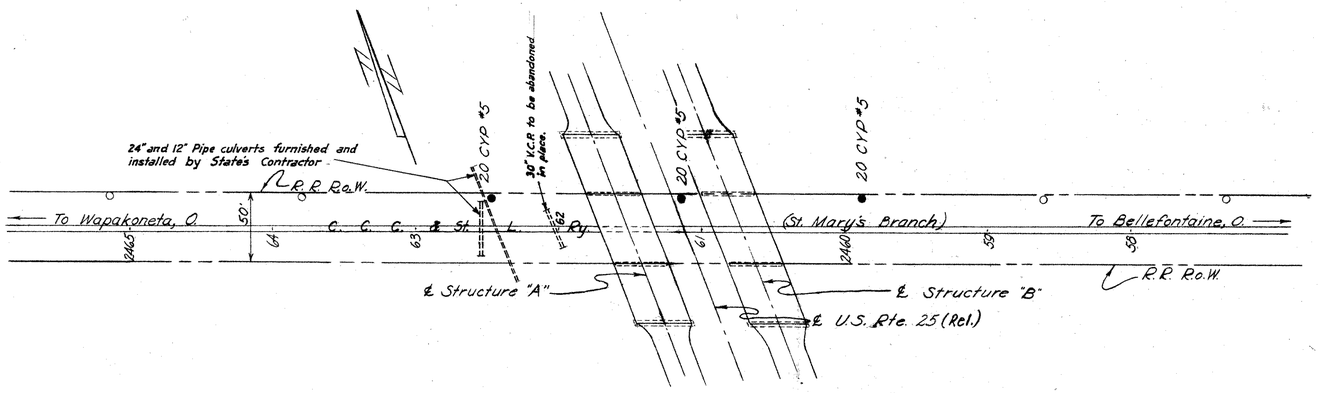
AUGLAIZE COUNTY
AUG-25-5.05



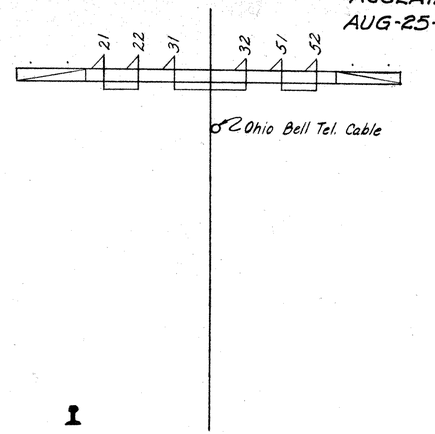
Existing Arrangement



Temporary Arrangement



Permanent Arrangement



Existing and Permanent Comm. Lines

- ⊙ Existing Poles
- ✕ Poles to be removed
- ● New Poles

Note:
All labor and the furnishing of all material in connection with changes as shown on this sheet and called for in the estimate will be performed by the N.Y.C.R.R. force account except as noted.

Added to Plans 12/13/56

BRIDGE No. AUG-25-0517 OVER N.Y.C. R.R.

NYC System	Office of Chief Engineer	Chicago, Ill.

PROPOSED OVERPASS ~ U.S. 25, Relocated.
Communication Line Changes
0.8 MILES EAST OF EAST CORP'N. LINE
WAPAKONETA, O.

Southern District	Ohio Division		Plan No. 7021
Scale: 1"=50'	November 21, 1956.	V.S. 303	File No. 121-84

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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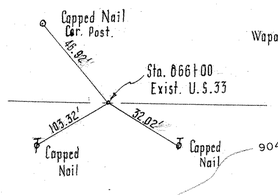
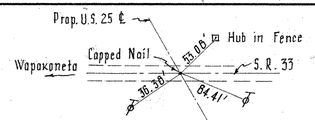
AUGLAIZE COUNTY
AUG-25-5.05

Bridge № AUG-25-0546

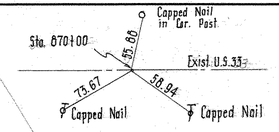
.7 Mi ± East of Wapakoneta

MICROFILMED
DEC 30 1986





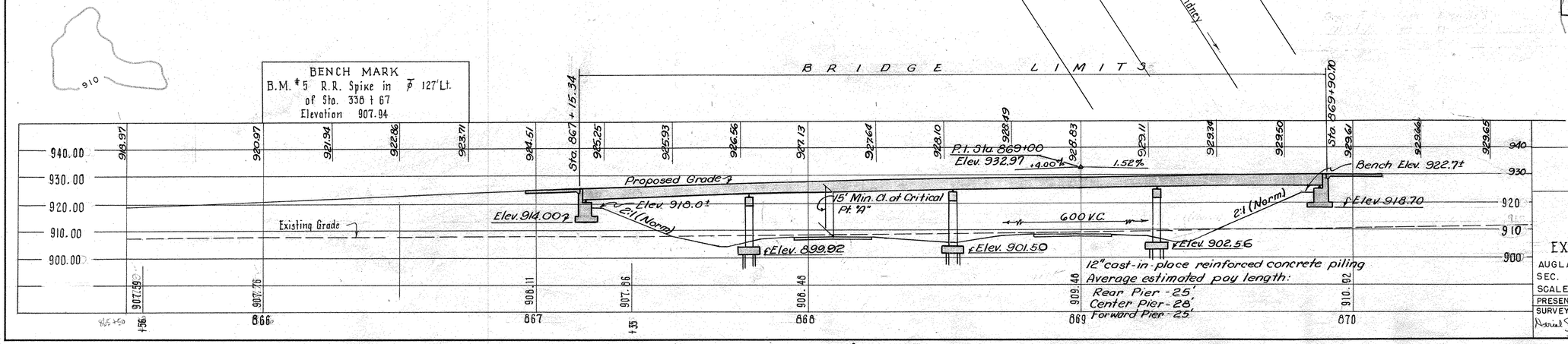
U.S. 33 & U.S.R 25 Intersection
Sta. 336+19.12 U.S.25 = Sta. 866+53.02 U.S.33



FOUNDATION SOUNDING: Foundation design and foundation quantities are based on a study of rod soundings and soil sampling soundings made on the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus, or in the Division Office, but the State assumes no responsibility for the accuracy thereof.

PROPOSED STRUCTURE

TYPE: Continuous steel beams with reinf. concrete deck and substructure.
SPANS: 60'-75'-75'-60' ℄ brgs.
ROADWAY: 28' f/f to 2'-0" safety curbs
LOAD FREQ.: CF-400(51)
SKEW: 32°-53" R.F.
WEARING SURFACE: 1" Monolithic
APPROACH SLAB: AS 1-54 (20' long)
ALIGNMENT: Tangent



PROFILE of PROPOSED ℄

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO. AUG 25-0546
EXISTING U.S.R 33 over S.R. 25
AUGLAIZE CO. U.S 25
SEC. STA. 336+19.12
SCALE 1"= 20'

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

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

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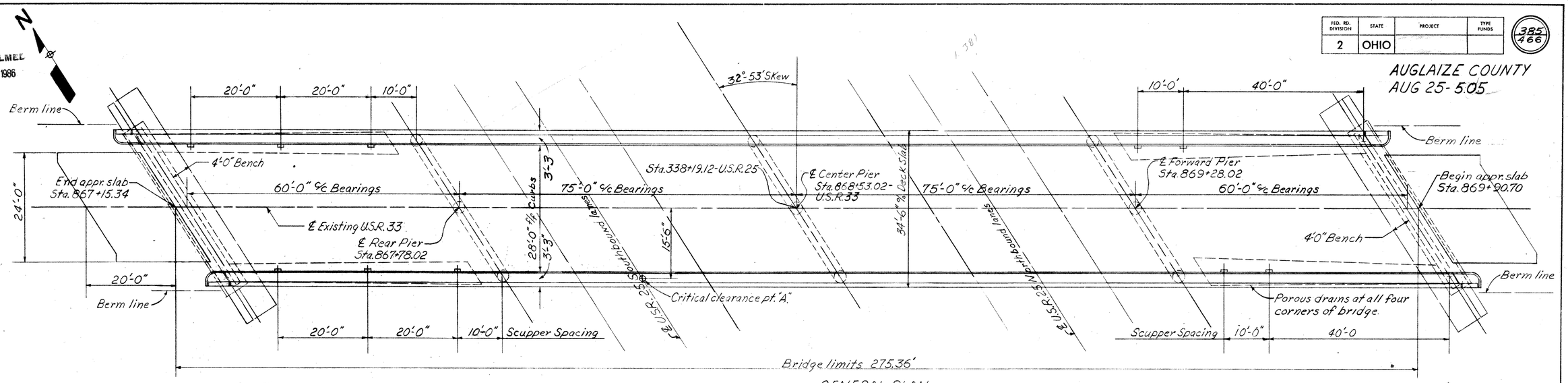
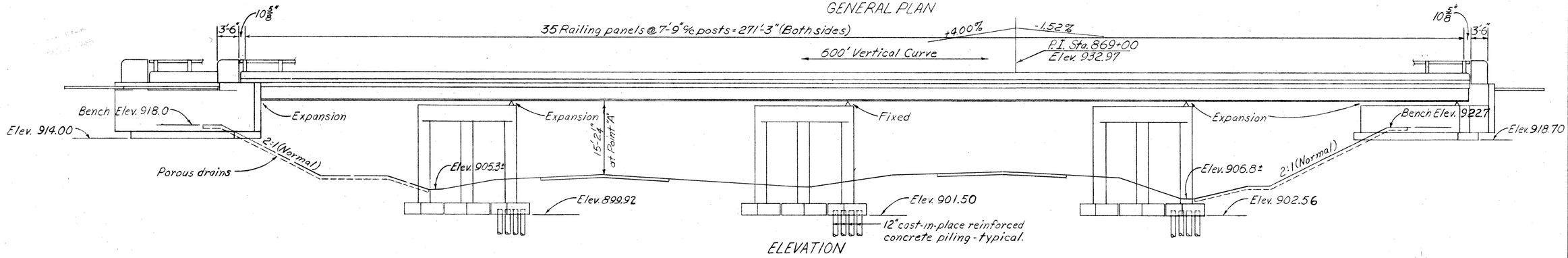
466

AUGLAIZE COUNTY
AUG 25-5.05



GENERAL PLAN



ELEVATION

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Superstr.	Piers	Abuts.	Gen.	As Built	
E-2	Lump	Sum	Cofferdams, cribs and sheeting				Lump		
E-2	230	Cu. Yds.	Unclassified excavation		129	101			
S-1	308	Cu. Yds.	Class "C" concrete, superstructure	308					
S-1	76	Cu. Yds.	Class "C" concrete, pier caps and columns		76				
S-1	94	Cu. Yds.	Class "E" concrete, abutments above footings			94			
S-1	68	Cu. Yds.	Class "E" concrete, footings		38	30			
	~~104,915~~								
S-4	~~100332~~	Lbs.	Reinforcing steel	~~81326~~	~~13386~~	~~5477~~	~~143~~	C-17, +4583	104,915
S-7	~~296000~~	Lbs	Structural steel	296000				C-19, +5760	301,760
S-8	~~296000~~	Lbs.	Field painting of structural steel	296000				C-19, +5760	301,760
S-14	56004	Lin. ft.	Railing (Aluminum rail and supports, concrete parapet and end posts)						
S-16	Lump	Sum	First test pile				Lump		
S-18	~~1110~~ 1110	Lin. ft.	12" cast-in-place reinforced concrete piling		~~1110~~			C-18, -504	806
S-29	~~29~~ 29	Cu. Yds.	Porous backfill			29			
S-29	52	Cu. Yds.	Porous drains on embankment slopes				45		

GENERAL NOTES

FOR ADDITIONAL GENERAL NOTES see Sheet No. 376
SURFACE FINISH OF CONCRETE: Railing end posts, railing, parapet, curb faces, facias of deck and exposed surfaces of piers, abutments and wing walls shall receive a rubbed surface finish. All other exposed surfaces shall be governed by the provisions of Item S-1.
POROUS DRAINS, extending from face of abutment to Elevations shown shall be provided at all four corners of the bridge. The drains shall be 6 ft. wide at the low end, tapering to 4 ft. wide at the face of the abutment and one foot thick.
PILES shall be driven to minimum bearing capacity of 35 tons for the piers. The length of penetration of every pile shall be at least 80% of estimated average pay length of the piles in the pertinent pier as indicated on the plans unless a lesser penetration is approved by the Director.
STRUCTURAL STEEL for the 36 WF 230 beams shall conform to A.S.T.M. Designation A-373. All other structural steel shall conform to either A.S.T.M. A-7 or to A-373.

INITIAL SUBMISSION DATE 9-17-56			FINAL APPROVAL DATE
REVISED		APPROVED	
10-8-56			

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

GENERAL PLAN & ELEVATION
NOTES & ESTIMATED QUANTITIES
BRIDGE NO. AUG 25-0546
U.S.R. 33 OVER U.S.R. 25
AUGLAIZE COUNTY U.S.R. 25
STA. 338+19.12

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RWM	J.E.S.					

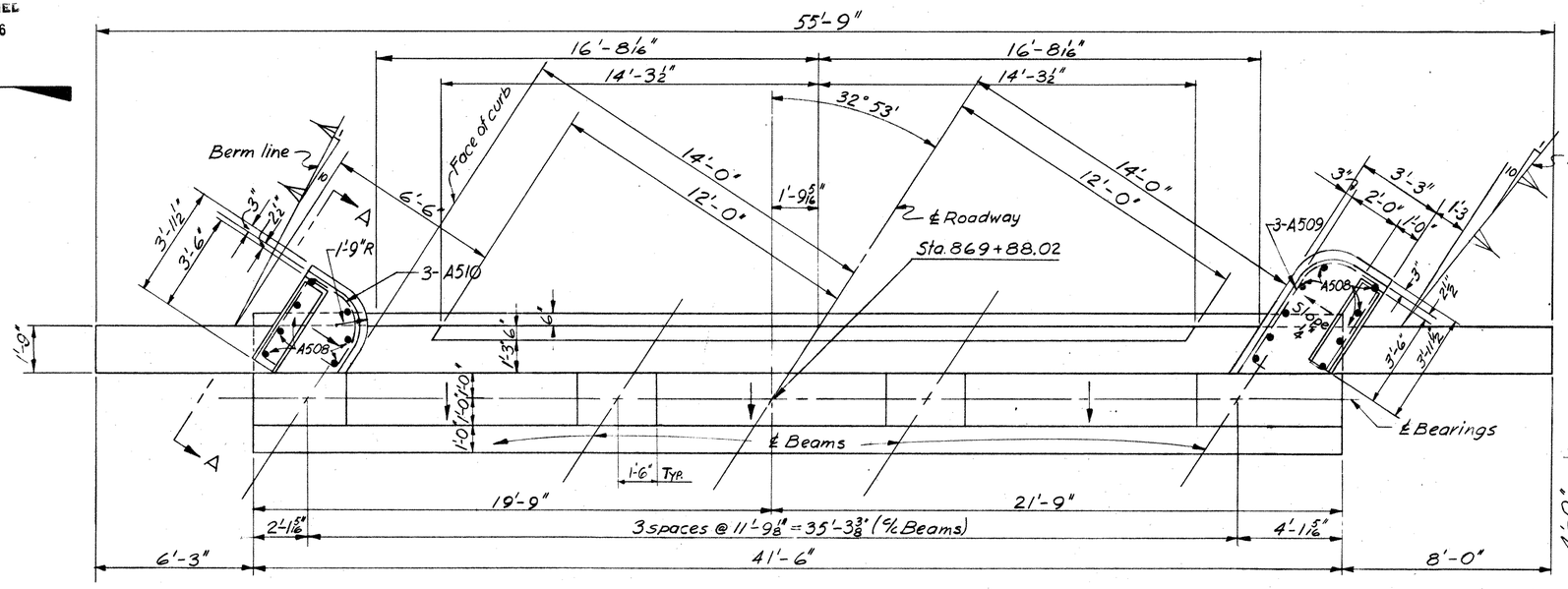
Revised As-Built H.E.R. 7-20-59

MICROFILMED
DEC 30 1986

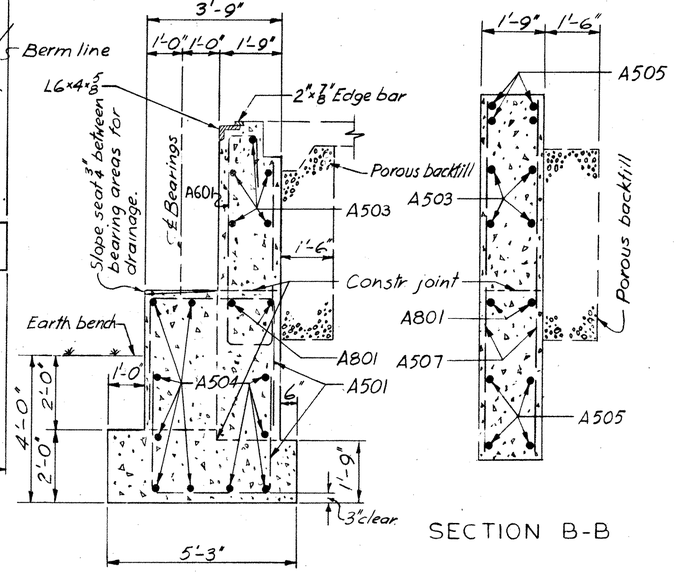
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

386/466

AUGLAIZE COUNTY
AUG.-25-5.05

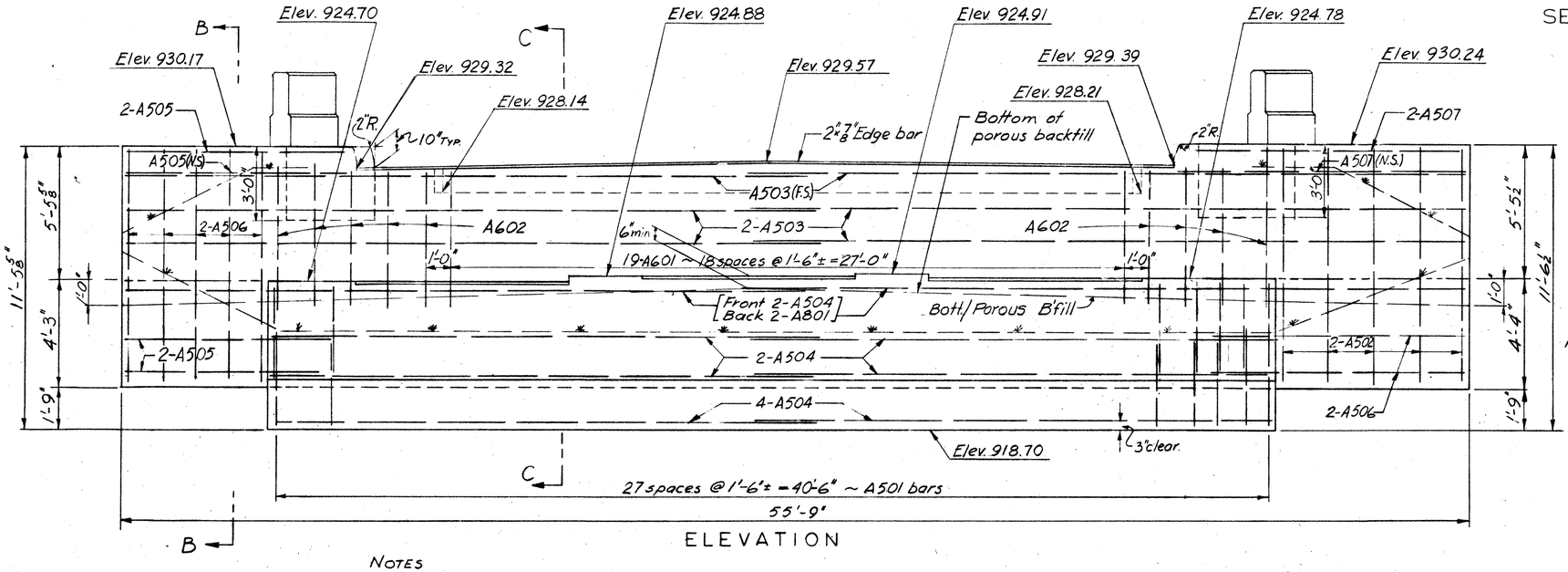


PLAN

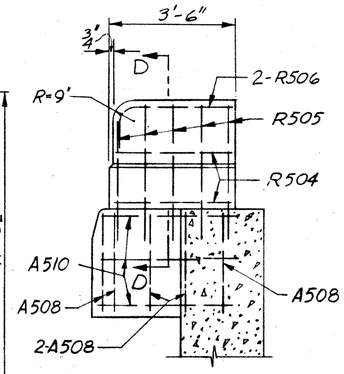


SECTION B-B

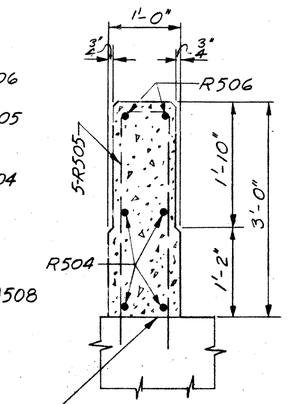
SECTION C-C



ELEVATION



VIEW A-A



SECTION D-D

NOTE: Concrete above this construction joint included with railing for payment.

NOTES

POROUS BACKFILL shall extend upward to the approach slab and surface of earth shoulders and outward to the surface of embankment slopes.

CLEARANCE from face of concrete to reinforcing steel shall be 2" unless otherwise shown.

CONCRETE shall be Class "E" and payment will be made on this basis, but Class "C" concrete may be used for any or all parts of the abutment.

Abbreviations:
N.S. = Near side
F.S. = Far side

PROCEDURE: The embankment shall be placed and compacted to the height of the earth bench, after which excavation shall be made for the abutments.

INITIAL SUBMISSION DATE 9-17-86			FINAL APPROVAL DATE
REVISED		APPROVED	

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

EAST ABUTMENT DETAILS

BRIDGE No AUG.-25-0546
U.S.R. 33 OVER U.S.R. 25
AUGLAIZE COUNTY U.S.R. 25
STA. 338+19.12

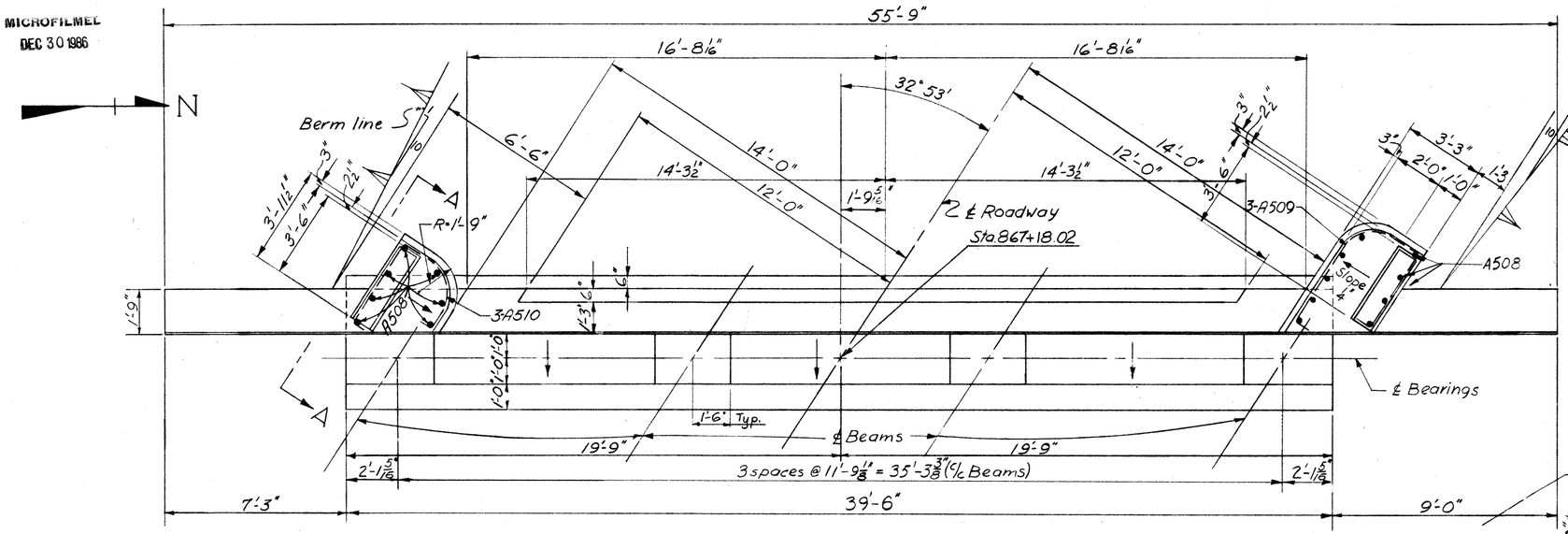
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RWM	E.E.		D.W.P.			

MICROFILMED
DEC 30 1986

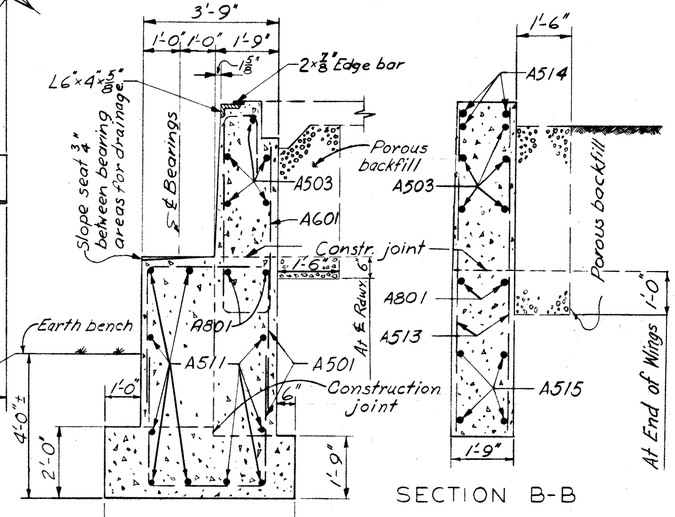
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

387/166

AUGLAIZE COUNTY
AUG-25-5.05

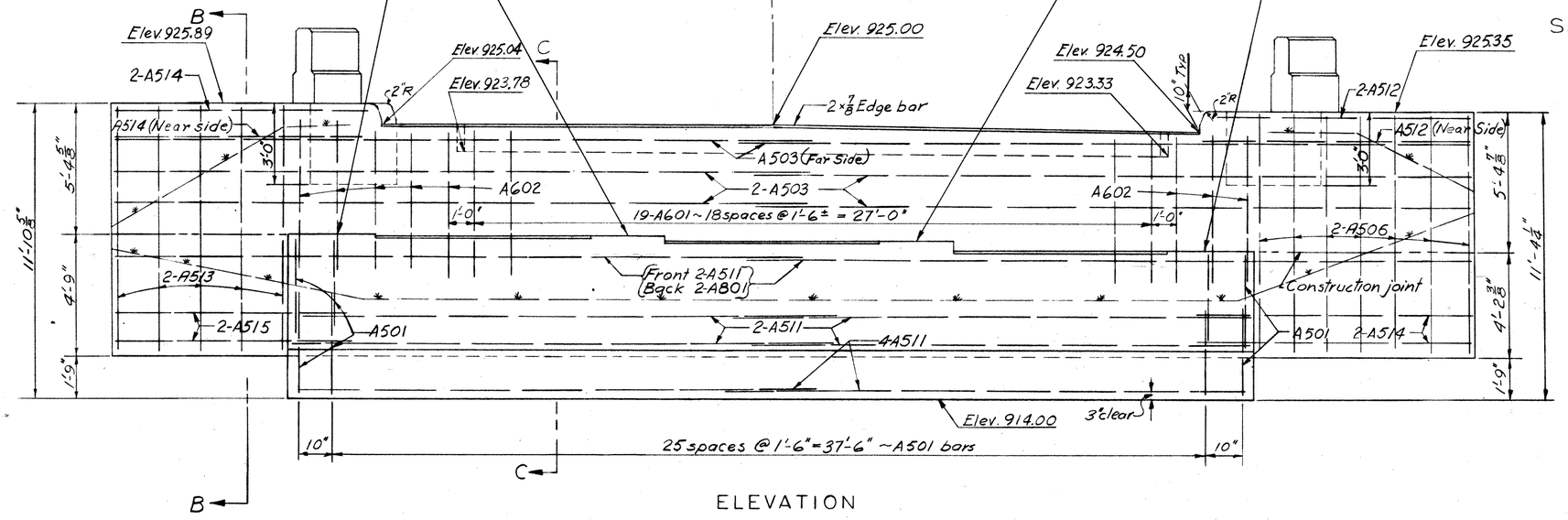


PLAN

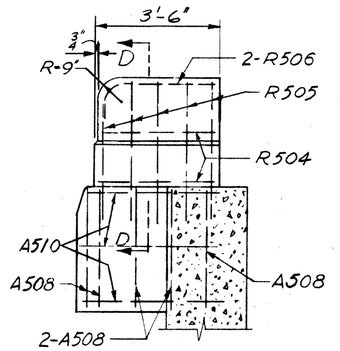


SECTION B-B

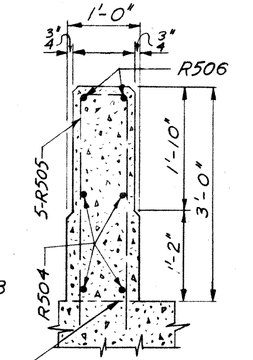
SECTION C-C



ELEVATION



VIEW A-A



SECTION D-D

NOTE: Concrete above this construction joint included with railing for payment

NOTES

POROUS BACKFILL shall extend upward to the approach slab and surface of earth shoulders and outward to the surface of embankment slopes.

CLEARANCE from face of concrete to reinforcing steel shall be 2" unless otherwise shown.

CONCRETE shall be Class "E" and payment will be made on this basis, but Class "C" concrete may be used for any or all parts of the abutment.

PROCEDURE: The embankment shall be placed and compacted to the height of the earth bench, after which excavation shall be made for the abutment.

INITIAL SUBMISSION DATE 9-17-56		FINAL APPROVAL DATE
REVISED	APPROVED	

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

WEST ABUTMENT DETAILS

BRIDGE No AUG-25-0546
U.S.R. 33 OVER U.S.R. 25
AUGLAIZE COUNTY U.S.R. 25
STA 338+19.12

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RWM						

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

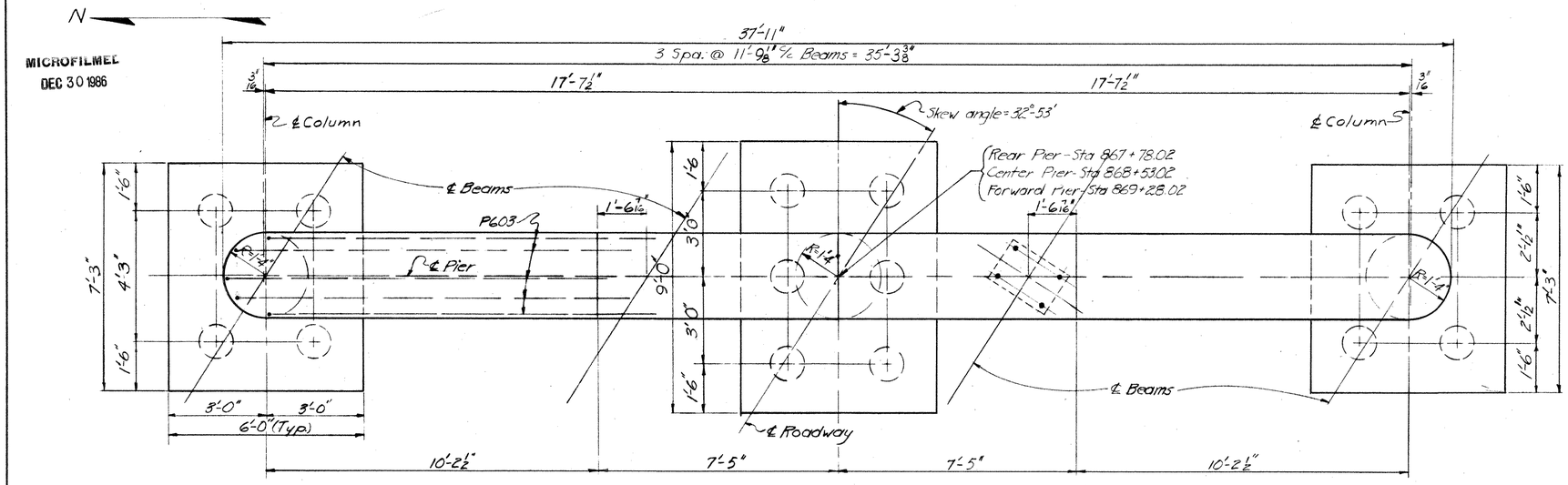
AUGLAIZE COUNTY
AUG-25-5.05

388
466

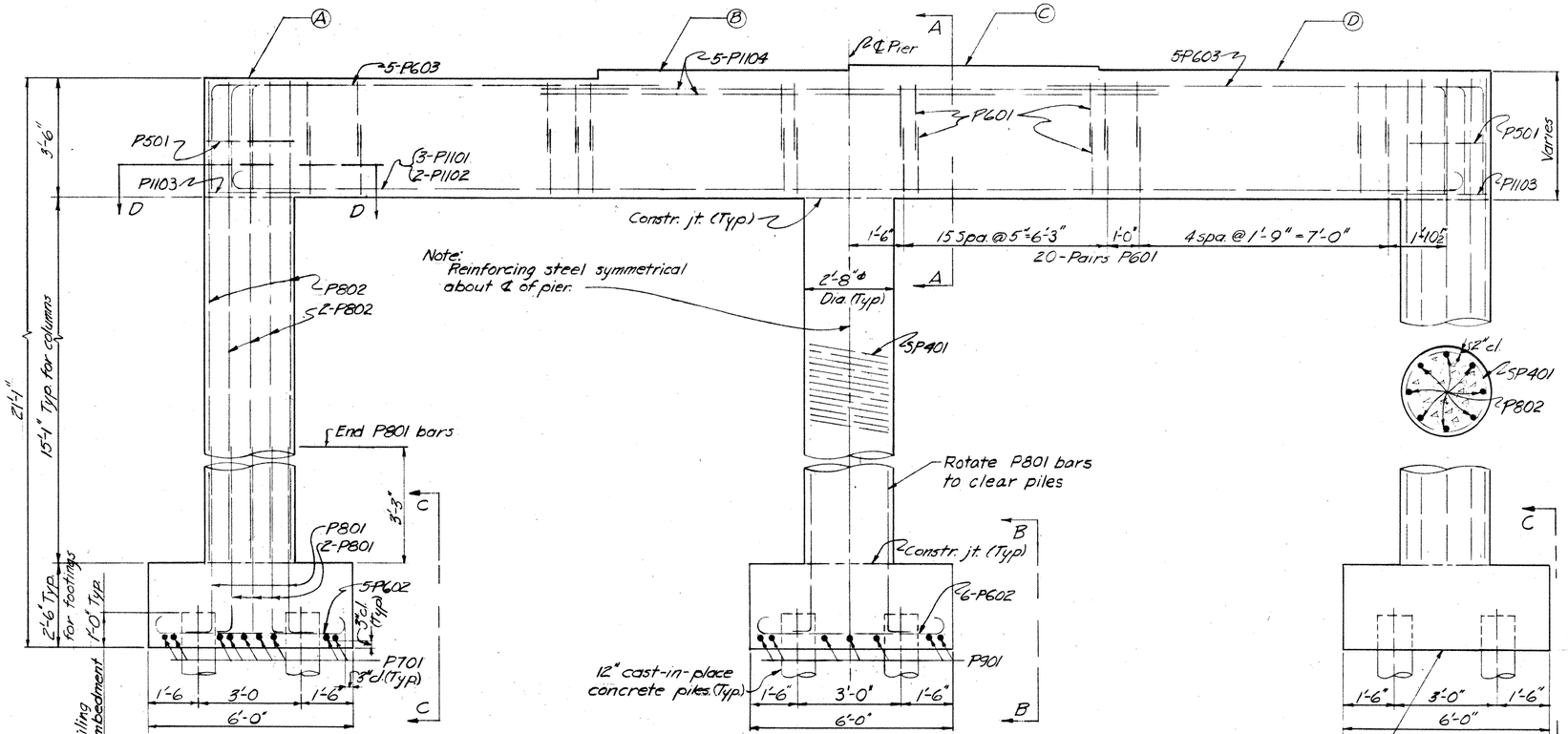
PIER NOTES:
REINFORCING STEEL shall be 2" clear from face of concrete unless otherwise shown.
CONCRETE shall be Class "C" for pier caps and columns and Class "E" for footings.
Downward leg of P603 bars shall be located in periphery of P802 bars and wired thereto.
Locate reinforcing bars in pier cap to clear anchor bolts (Pier #2 only)

TABLE OF ELEVATIONS

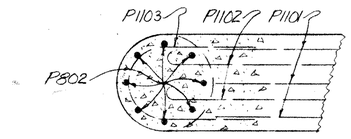
LOCATION	A	B	C	D	E
Rear Pier	921.00	921.30	921.45	921.45	899.92
Center Pier	922.58	922.84	922.95	922.90	901.50
Forward Pier	923.64	923.86	923.92	923.82	902.56



PLAN



ELEVATION



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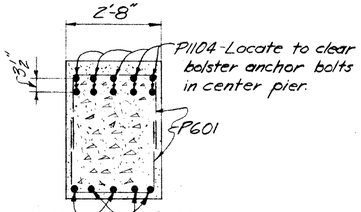

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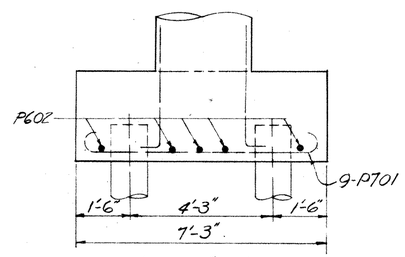


VIEW "C-C"

VIEW "B-B"

INITIAL SUBMISSION DATE 9-17-56			FINAL APPROVAL DATE
REVISED	APPROVED		
10-8-56			

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

PIER DETAILS
BRIDGE NO. AUG 25-0546
USR 33 OVER USR 25

AUGLAIZE COUNTY — USR 25
STA 338+19.12

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RWM	FEE		[illegible]	[illegible]		

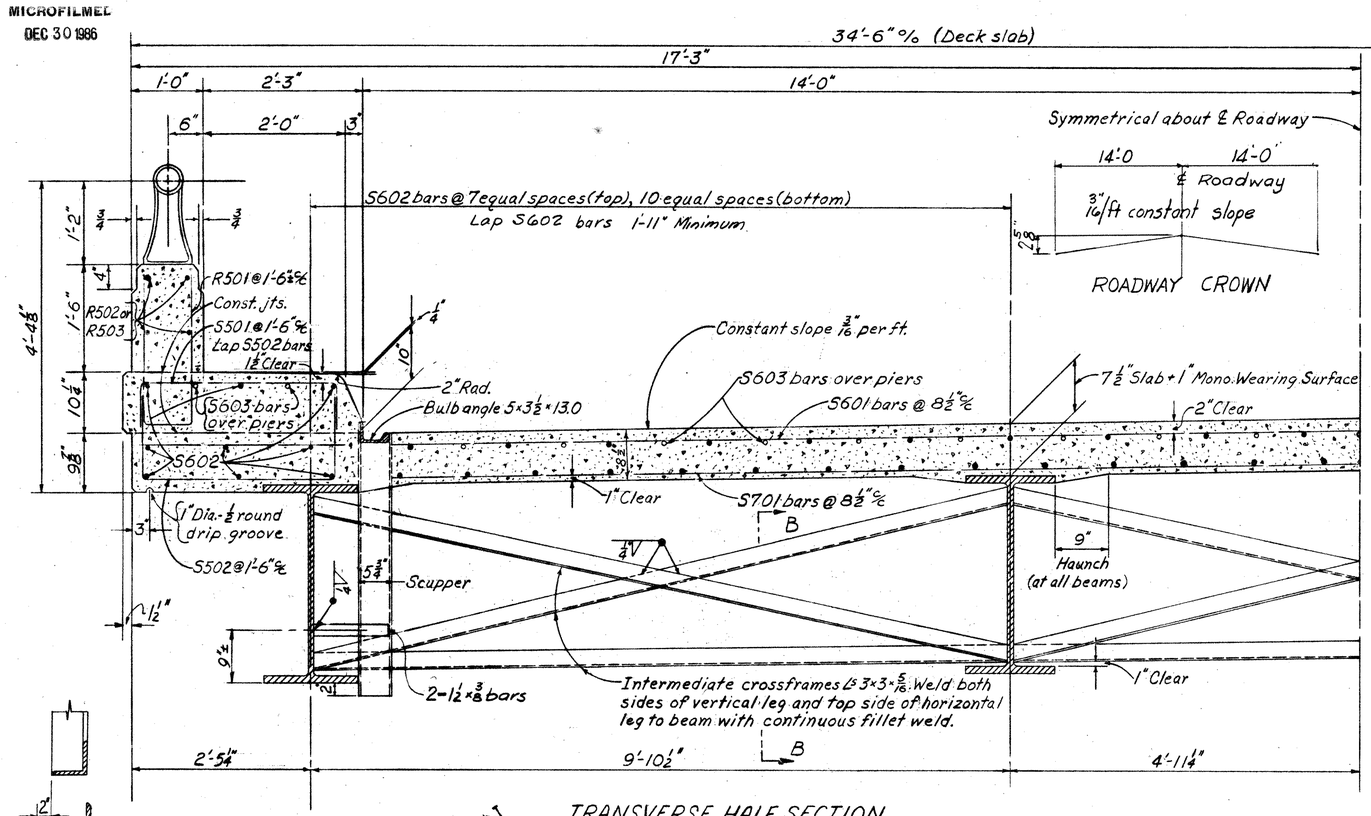
MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

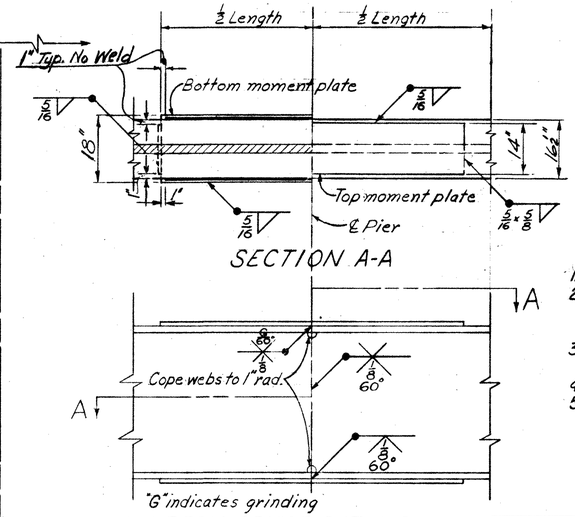
389/466

AUGLAIZE COUNTY
AUG-25-5.05

PIER	MOMENT PLATE SIZE	
	Top Plate	Bottom Plate
Rear & Forward	14" × 5/8" × 15'-6"	18" × 11/16" × 15'-6"
Center	14" × 5/8" × 18'-6"	18" × 11/16" × 18'-6"



TRANSVERSE HALF SECTION



BEAM SPLICE DETAILS WITH MOMENT PLATES

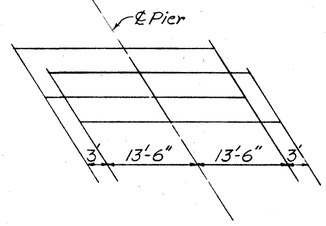


DIAGRAM SHOWING STAGGER OF S603 BARS OVER PIERS

BEAM SPLICE WELDING PROCEDURE

1. Raise end of beam at center pier 2.
2. Butt weld beam flanges and web at rear pier using the following sequence: make one pass on each flange, then one on the web; repeat until welds are completed.
3. Weld top and bottom flange moment plates at rear pier.
4. Lower end of beam at center pier.
5. Make splice at center and forward piers in the same manner raising the end of the beams 2" at the forward pier and 1⅜" at the forward abutment.

DEFLECTION AND CAMBER				
LOCATION	Outside Beams		Inside Beams	
	60'-0"	75'-0"	60'-0"	75'-0"
Deflection due to weight of steel	1/10"	1/16"+	1/10"	1/16"+
Deflection due to remaining dead load	7/16"	1/2"+	1/4"+	3/8"
Convexity required for vertical curve	3/4"	1 3/8"	3/4"+	1 7/16"
Sum of deflection and convexity	1 1/4"	1 11/16"	1 1/8"	1 13/16"
Required camber	1 1/4"	1 3/4"	1 1/8"	1 13/16"

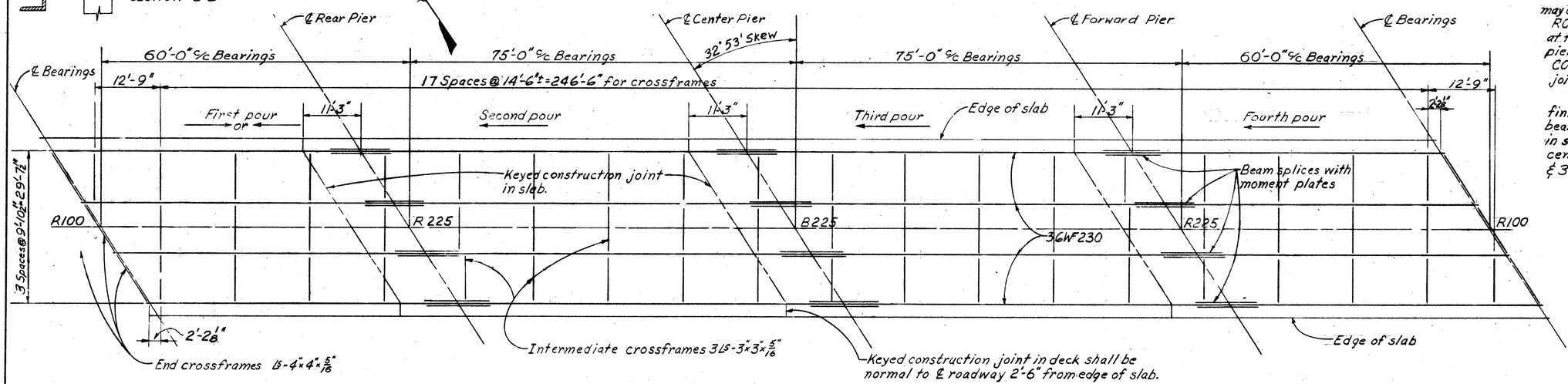
NOTES

DECK CONSTRUCTION PROCEDURE: The deck slab shall be placed in sections between transverse construction joints, in the numerical order and in the direction indicated on the "Steel Framing and Concrete Pouring Sequence," in order that the major portion of the dead load deflection may occur prior to placing concrete over each pier.

ROCKERS AND BOLSTERS shall be R-100 at the abutments and R-225 or B-225 at the piers. For details see Standard Drawing RB-1-55.

CONCRETE above safety curb construction joint is included with railing for payment.

For details of end crossframes, end finish, curb plates, aluminum railing posts, beam cut-off at backwall, and welded butt joint in superstructure end finish angles at centerline of roadway see Sheets No.s 376 & 377.



STEEL FRAMING AND CONCRETE POURING SEQUENCE

INITIAL SUBMISSION DATE 9-17-56			FINAL APPROVAL DATE
REVISED		APPROVED	
10-8-56			

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

SUPERSTRUCTURE DETAILS

BRIDGE NO. AUG.25-0546
U.S.R. 33 OVER U.S.R. 25.

AUGLAIZE COUNTY U.S.R. 25.
STA. 338+19.12

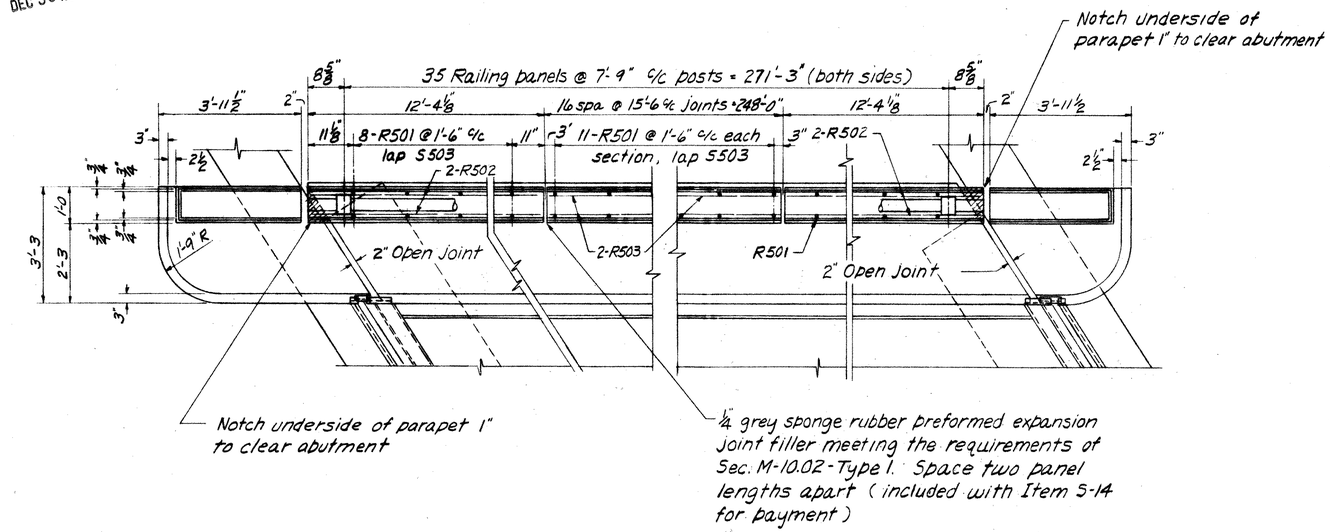
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RWM	J.E.S.		RWP	HK		

MICROFILMED
DEC 30 1986
MICROFILMED
DEC 30 1986

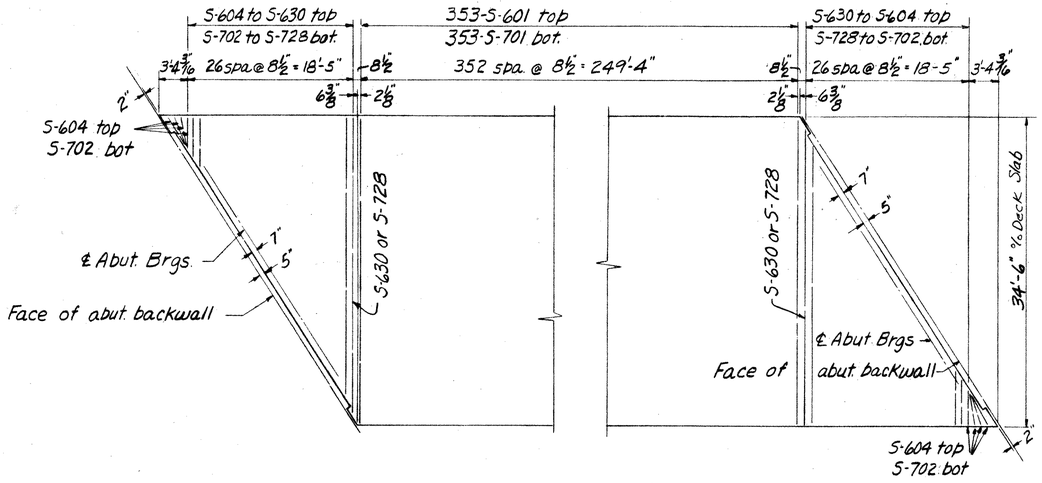
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

390 766

AUGLAIZE COUNTY
AUG-25-5.05



PLAN
PARAPET WALL DETAILS

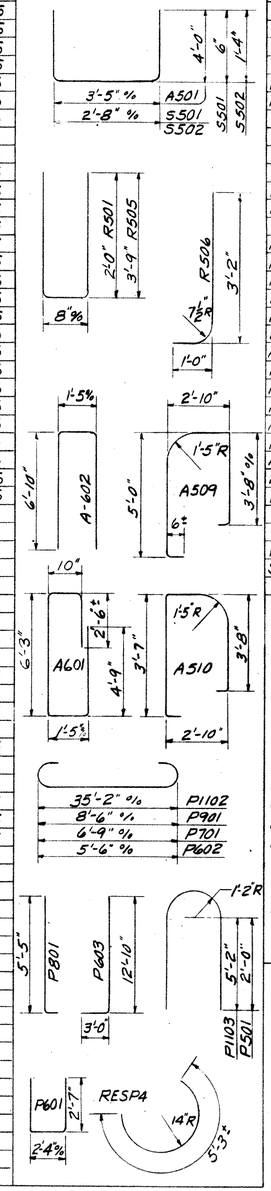


TRANSVERSE REINFORCING STEEL LAYOUT - DECK SLAB

REINFORCING STEEL LIST

MARK	NO.	LENGTH	WEIGHT	SHP
SUPERSTRUCTURE				
S701	353	34'-2"	24655	S
S702	8	4'-7"	75	S
S703	2	5'-8"	23	S
S704	2	6'-9"	28	S
S705	2	7'-10"	32	S
S706	2	8'-11	36	S
S707	2	10'-0"	41	S
S708	2	11'-1"	45	S
S709	2	12'-3	50	S
S710	2	13'-4"	55	S
S711	2	14'-5"	59	S
S712	2	15'-6	63	S
S713	2	16'-7"	68	S
S714	2	17'-8"	72	S
S715	2	18'-9"	77	S
S716	2	19'-11"	81	S
S717	2	21'-0"	86	S
S718	2	22'-1"	90	S
S719	2	23'-2"	95	S
S720	2	24'-3"	99	S
S721	2	25'-4	104	S
S722	2	26'-6"	108	S
S723	2	27'-7"	113	S
S724	2	28'-3"	117	S
S725	2	29'-9"	122	S
S726	2	31'-0"	127	S
S727	2	32'-2"	131	S
S728	2	33'-3"	136	S
S601	353	34'-2"	18117	S
S602	594	32'-0"	28550	S
S603	69	30'-0"	3109	S
S604	8	4'-7"	55	S
S605	2	5'-8"	17	S
S606	2	6'-9"	20	S
S607	2	7'-10"	24	S
S608	2	8'-11	27	S
S609	2	10'-0"	30	S
S610	2	11'-1"	33	S
S611	2	12'-3	37	S
S612	2	13'-4"	40	S
S613	2	14'-5	43	S
S614	2	15'-6"	47	S
S615	2	16'-7"	50	S
S616	2	17'-8"	53	S
S617	2	18'-9"	56	S
S618	2	19'-11"	60	S
S619	2	21'-0"	63	S
S620	2	22'-1"	66	S
S621	2	23'-2"	70	S
S622	2	24'-3"	73	S
S623	2	25'-4"	76	S
S624	2	26'-6	80	S
S625	2	27'-7"	83	S
S626	2	28'-8"	86	S
S627	2	29'-9"	90	S
S628	2	31'-0"	93	S
S629	2	32'-2"	96	S
S630	2	33'-3"	100	S
S501	362	3'-5"	1290	
S502	362	5'-1"	1919	

BENDING DIAGRAMS



MARK	NO.	LENGTH	WEIGHT	SHP
RAILING				
R501	384	4'-3"	*	B
R502	16	12'-0"	*	S
R503	128	15'-2"	*	S
R504	16	3'-2"	*	S
R505	20	7'-11"	*	B
R506	8	3'-11"	*	B
ABUTMENTS				
A801	8	29'-0"	619	S
A601	38	14'-11"	853	B
A602	17	14'-10"	379	B
A501	112	11'-2	1304	B
A502	10	9'-5	98	S
A503	20	28'-6"	595	S
A504	20	21'-6"	448	S
A505	7	7'-6"	55	S
A506	28	9'-3"	270	S
A507	3	11'-0"	34	S
A508	32	2'-8"	89	S
A509	3	11'-6"	36	B
A510	3	7'-7"	24	B
A511	20	20'-6"	428	S
A512	3	10'-0"	31	S
A513	10	9'-9"	102	S
A514	7	10'-6"	77	S
A515	4	8'-6"	35	S

MARK	NO.	LENGTH	WEIGHT	SHP
PIERS				
P1101	9	32'-6"	1554	S
P1102	6	38'-0"	1211	B
P1103	6	14'-0"	446	B
P1104	30	15'-6"	2471	S
P901	21	10'-8"	762	B
P801	72	6'-6"	1250	B
P802	72	18'-3	3508	S
P701	54	8'-5"	929	B
P601	240	7'-2"	2583	B
P602	48	6'-10"	493	B
P603	30	15'-8"	706	B
P501	6	7'-8"	48	B
REPLACEMENT BARS				
RE11	1	7'-6"	40	S
RE9	1	6'-10"	23	S
RE8	1	6'-6"	17	S
RE7	2	6'-2"	26	S
RE6	3	5'-11"	27	S
RE5	1	5'-7"	6	S
RESP4	1	5'-3	4	B

* Included with Item S-14 for payment

SPIRAL REINFORCING LIST

MARK	NO.	CORE DIA. to SPIRAL	LENGTH	PITCH	NO. TURNS	WEIGHT
SP401	9	28"	15'-1"	4½	43	2136

SPIRAL REINFORCING BARS: The length shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap. The No. of turns shown in the steel list for the spiral bars is the Length divided by the Pitch, plus 3 turns (total number of closed coils), expressed as the nearest whole number. 1½ closed coils shall be provided at the ends of each spiral unit. Three steel channel, tee or angle spacers weighting approximately 0.68 lbs per lin.ft. of spacer shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The weight of these spacers, based on 0.68 lbs. per lin ft. will be paid as reinforcing steel and is included in the the the tabulated quantity of spiral bars.

BAR SIZE is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four are used, indicate the bar size. For example, P801 is a No. 8 size bar & P1001 is a No. 10 size.

Initial Submission Date 7-17-86		Final Approval Date
Revised	Approved	

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

SUPERSTRUCTURE DETAILS

BRIDGE No. AUG-25-0546
USR 33 OVER USR 25
AUGLAIZE COUNTY USR 25
STA. 338+19.12

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RWM	RA		DWP	MR		

MICROFILMED
DEC 30 1996

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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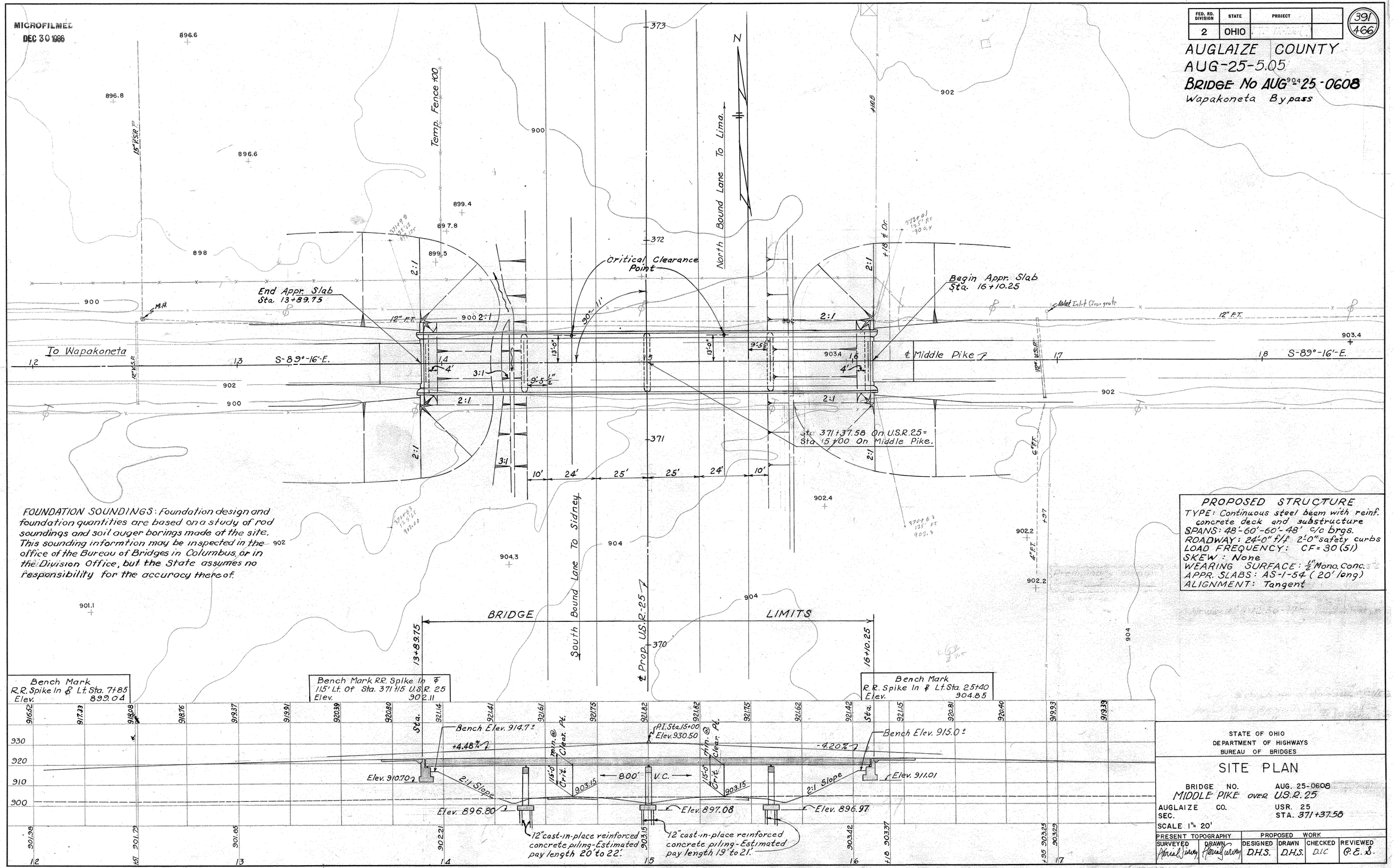
AUGLAIZE COUNTY
AUG-25-5.05
BRIDGE NO AUG 904-25-0608
Wapakoneta Bypass



FOUNDATION SOUNDINGS: Foundation design and foundation quantities are based on a study of rod soundings and soil auger borings made of the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus, or in the Division Office, but the State assumes no responsibility for the accuracy there of.

PROPOSED STRUCTURE
TYPE: Continuous steel beam with reinf. concrete deck and substructure
SPANS: 48'-60'-60'-48' c/c Brgs.
ROADWAY: 24'-0" f/f 2'-0" safety curbs
LOAD FREQUENCY: CF = 30 (51)
SKEW: None
WEARING SURFACE: 1/2" Mono. Conc.
APPR. SLABS: AS-1-54 (20' long)
ALIGNMENT: Tangent

Bench Mark
R.R. Spike In ℄ Lt. Sta. 7+85
Elev. 899.04

Bench Mark R.R. Spike In ℄ 115' Lt. Of Sta. 371+15 U.S.R. 25
Elev. 902.11

Bench Mark
R.R. Spike In ℄ Lt. Sta. 25+40
Elev. 904.85

PROFILE ON CENTER LINE - (MIDDLE PIKE)

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO. AUG. 25-0608
MIDDLE PIKE over U.S.R. 25
AUGLAIZE CO. USR. 25
SEC. STA. 371+37.58
SCALE 1" = 20'

PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
Harold Silvey	Harold Silvey	D.H.S.	D.H.S.	D.I.C.	C.E.J.

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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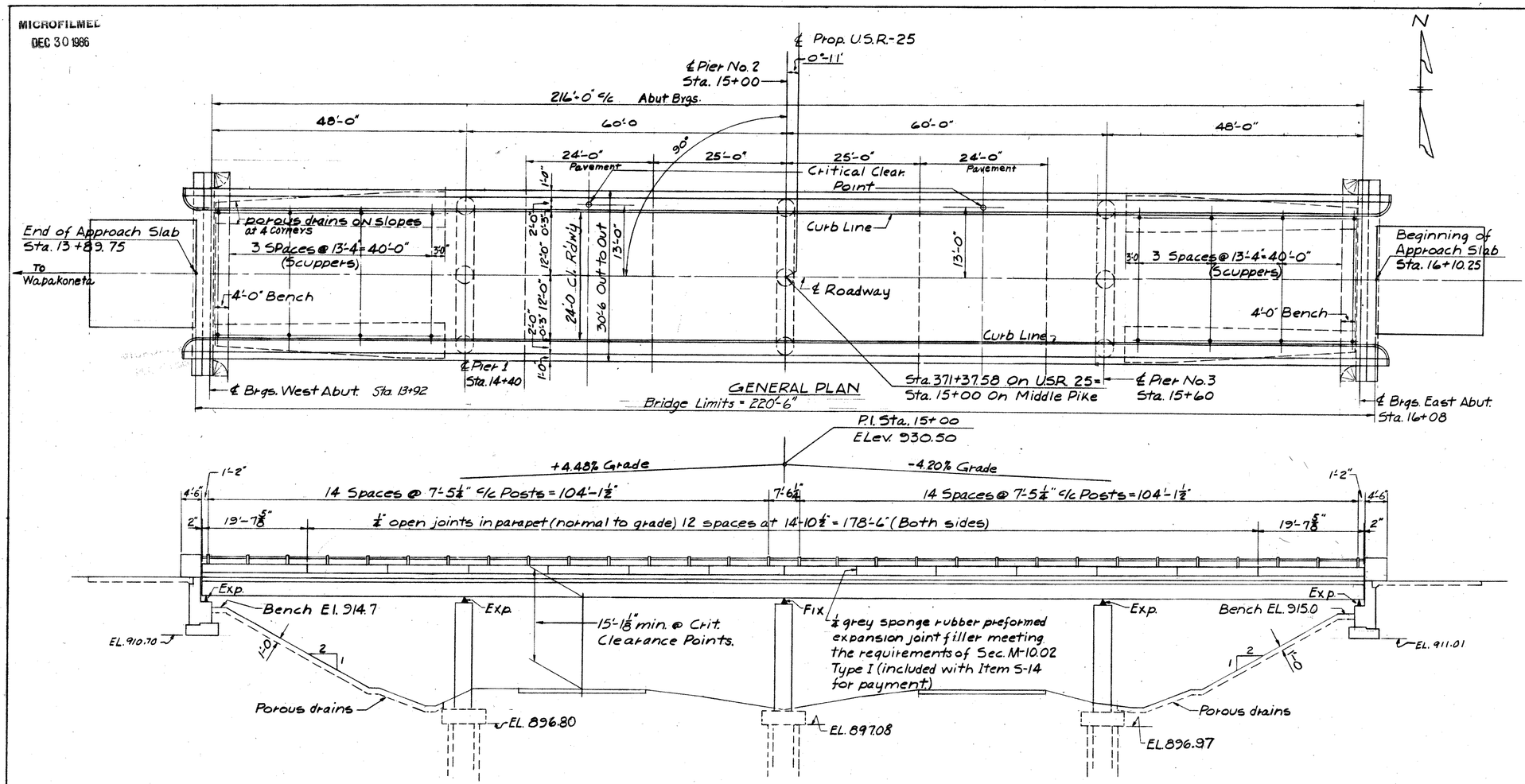
AUGLAIZE COUNTY
AUG.-25-5.05



GENERAL PLAN
Bridge Limits = 220'-6"

ELEVATION

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	ABUTMENTS		PIERS			SUPERSTRUCTURE	GENERAL	As Built	
				WEST	EAST	NO. 1	NO. 2	NO. 3				
E-2	196	Cu. Yds.	Unclassified Excavation	40	40	43	28	45				
S-1	194	Cu. Yds.	Class "C" Concrete, Superstructure						194			
S-1	63	Cu. Yds.	Class "E" Concrete, Abutments above Footings	32	32							
S-1	64.8	Cu. Yds.	Class "C" Concrete, Pier Caps & Col.			21.6	21.6	21.6				
S-1	57.2	Cu. Yds.	Class "E" Concrete, Footings	11.5	11.5	11.4	11.4	11.4				
S-4	~~60,737~~ 63,405	Lbs.	Reinforcing Steel	1682	1682	~~4568~~	~~4568~~	~~4568~~	33,597	72	C-17, +12,608	63,405
S-7	~~140,700~~ 140,700	Lbs.	Structural Steel						~~140,700~~ 140,700		C-19, -3888	136,812
S-8	~~140,700~~ 140,700	Lbs.	Field Painting, Struct. Steel						~~140,700~~ 140,700		C-19, -3888	136,812
S-14	454	Lin. Ft.	Railing (Aluminum with concrete parapet and end posts.)						454			
S-16	683	Lump Sum	First Test Pile							Lump Sum	C-18, -47	683
S-18	~~730~~	Lin. Ft.	12" C.I.P. reinforced concrete piles			~~250~~	~~240~~	~~240~~				
S-29	24	Cu. Yds.	Porous Backfill	12	12							
S-29	37	Cu. Yds.	Porous drains on embankment slopes							37		

GENERAL NOTES:

Surface Finish Of Concrete: Railing end posts, curb faces, fascias of deck and exposed sufaces of piers, abutments and wing walls, shall receive a rubbed surface finish. All other exposed surfaces shall be governed by the provisions of Item 5-1.

Porous Drains, extending from face of abutment to Elev. 900.75 shall be provided at all four corners of the bridge. The drains shall be 6 feet wide at the low end, tapering to 4 ft. wide at the face of the abutment, and one foot thick.

Piles shall be driven to a minimum bearing capacity of 35 tons

The length of penetration of every pile shall be at least 80% of the estimated average pay length of the piles in the pertinent pier as indicated on the plans unless a lesser penetration is approved by the Director.

For additional GENERAL NOTES see Sheet 377

INTIAL SUBMISSION DATE 8-7-56			FINAL APPROVAL DATE
REVISED 9-12-56	APPROVED		

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

GENERAL PLAN AND ELEVATION
NOTES AND ESTIMATED QUANTITIES

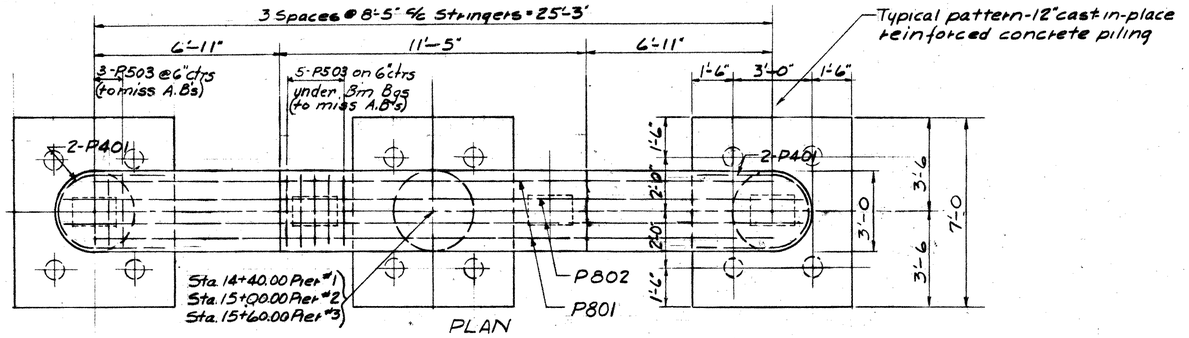
BRIDGE NO. AUG.-25-0608
MIDDLE PIKE OVER U.S.R. 25
AUGLAIZE COUNTY U.S.R. 25
STA. 371+37.58

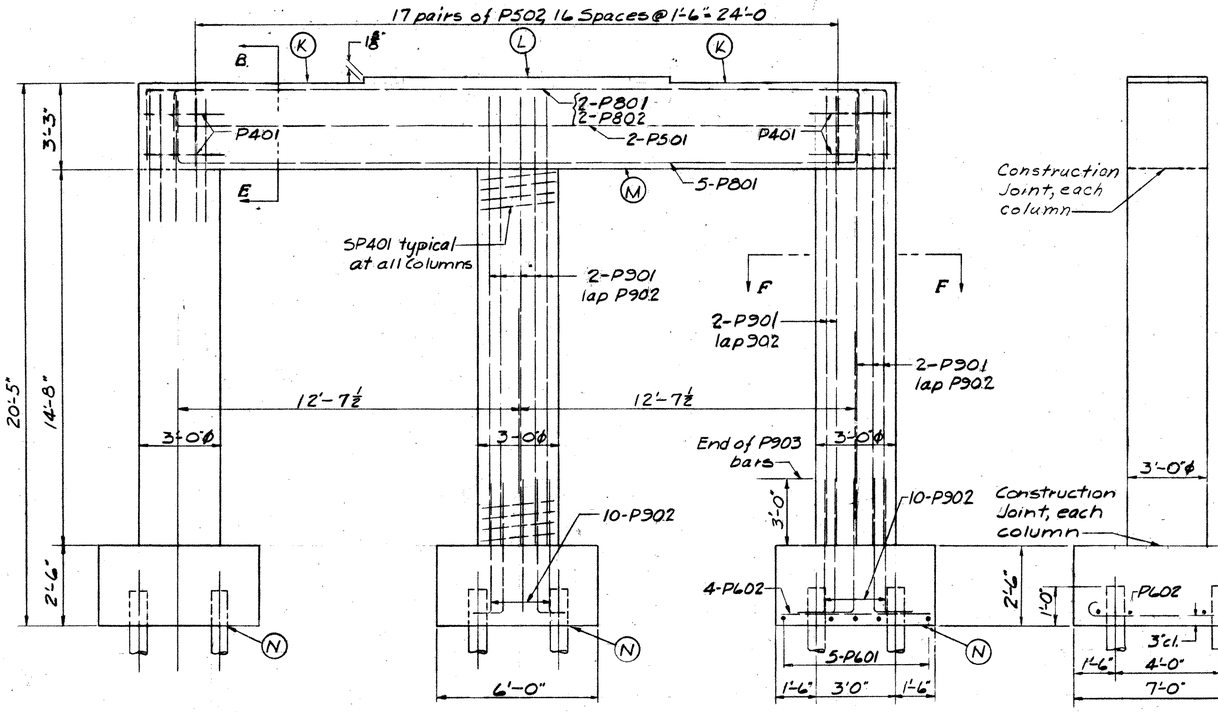
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RWM	M.H.		HHR	RWM		

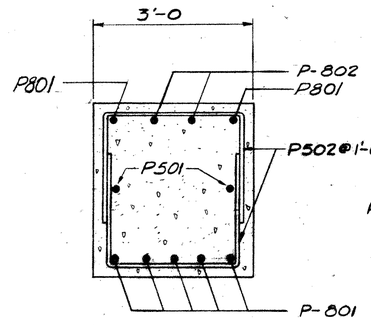
MICROFILMED
DEC 30 1986

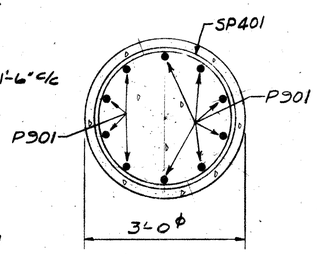
FED. RD. DIVISION	STATE	PROJECT		393 / 466
2	OHIO			

AUGLAIZE COUNTY
AUG. 25-5.05



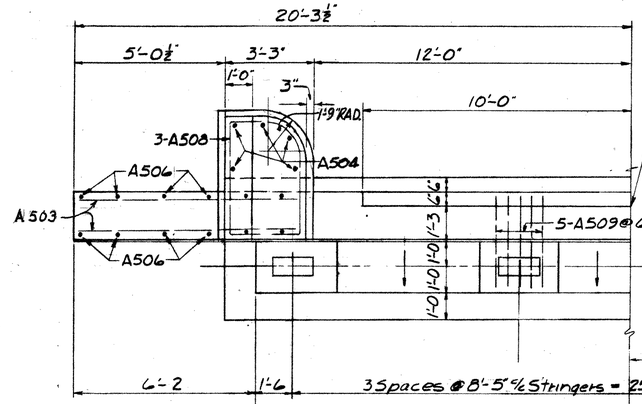


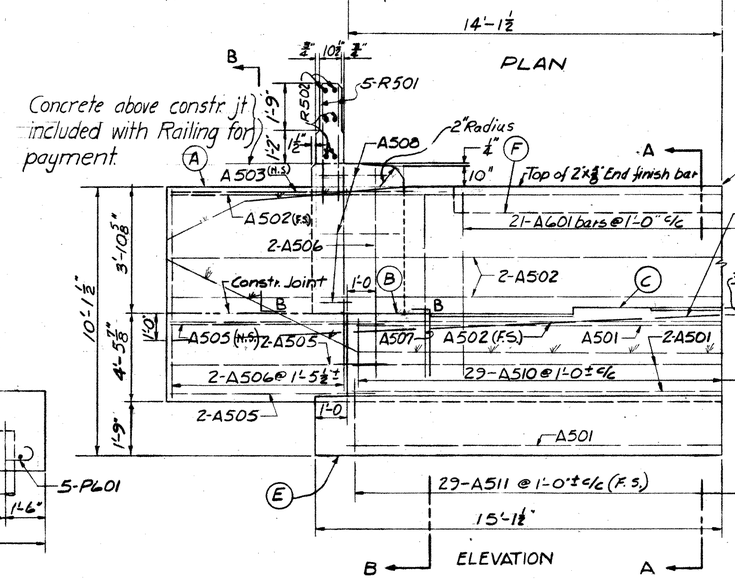


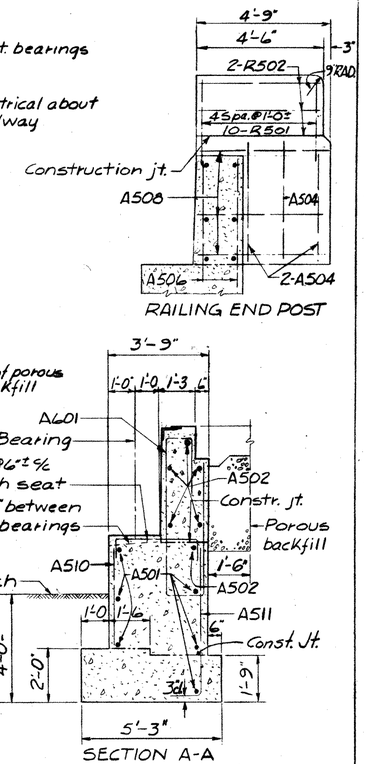


ELEVATION			
	Pier No. 1	Pier No. 2	Pier No. 3
K	917.22	917.50	917.39
L	917.36	917.64	917.53
M	913.97	914.25	914.14
N	896.80	897.08	896.97

All reinforcing steel shall be 2" clear to face of concrete unless noted

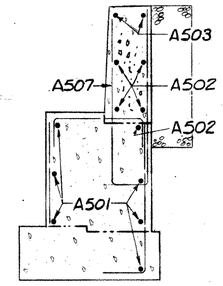


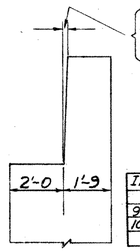




Embankment shall be placed and compacted to the height of the earth bench, after which excavation shall be made for the abutment.

Porous backfill shall extend upward to the approach slab and surface of earth shoulders, and outward to the surface of embankment slopes.





ELEVATIONS							
	A	B	C	D	E	F	
West Abutment	920.82	916.94	917.07	921.01	910.70	919.64	
East Abutment	921.13	917.25	917.38	921.32	911.01	919.95	

INITIAL SUBMISSION DATE 8-7-56		FINAL APPROVAL DATE
REVISED	APPROVED	
9-12-56		
10-8-56		

VARO ENGINEERS
COLUMBUS and NEWARK OHIO

PIER AND ABUTMENT DETAILS

BRIDGE NO. AUG. 25-0608
MIDDLE PIKE OVER U.S.R. 25
AUGLAIZE CO. U.S.R. 25
STA. 371+37.58

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RWM	MH		DWP	MKR		

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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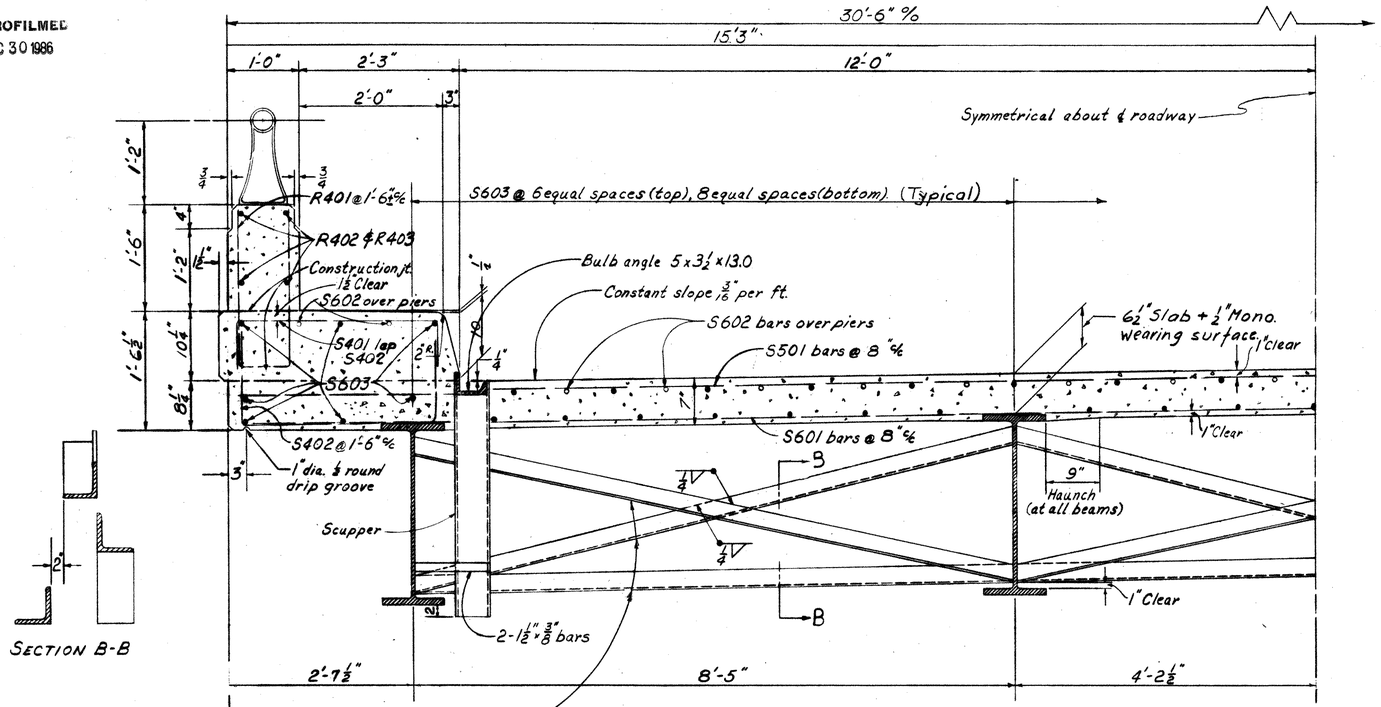
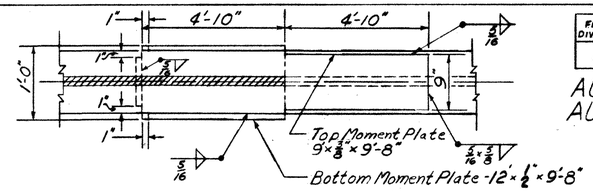
AUGLAIZE COUNTY
AUG-25-5.05



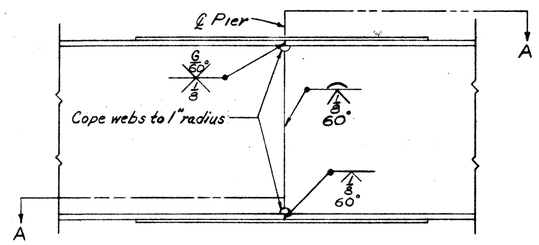
Intermediate crossframe Ls 3"x3"x5/16. Weld both sides of vertical leg and top side of horizontal leg to beam with ¼" continuous fillet weld.

TRANSVERSE HALF SECTION

SECTION B-B



SECTION A-A



"G" indicates grinding

BEAM SPLICE DETAILS

NOTES:
1. See sheet 376 for scupper and railing details.
2. See sheet 377 for end crossframes and end finish details.
3. See standard dwg. RBI-55 for details of rockers and bolsters.
4. Concrete parapet wall above safety curb is included with railing for payment.
5. The deck slab shall be placed in sections between transverse construction joints in the numerical order and direction shown in order that the major portion of the dead load deflection will occur prior to placing concrete over each pier.

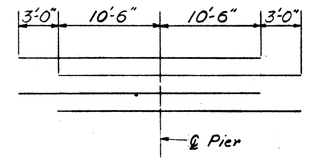
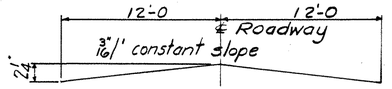
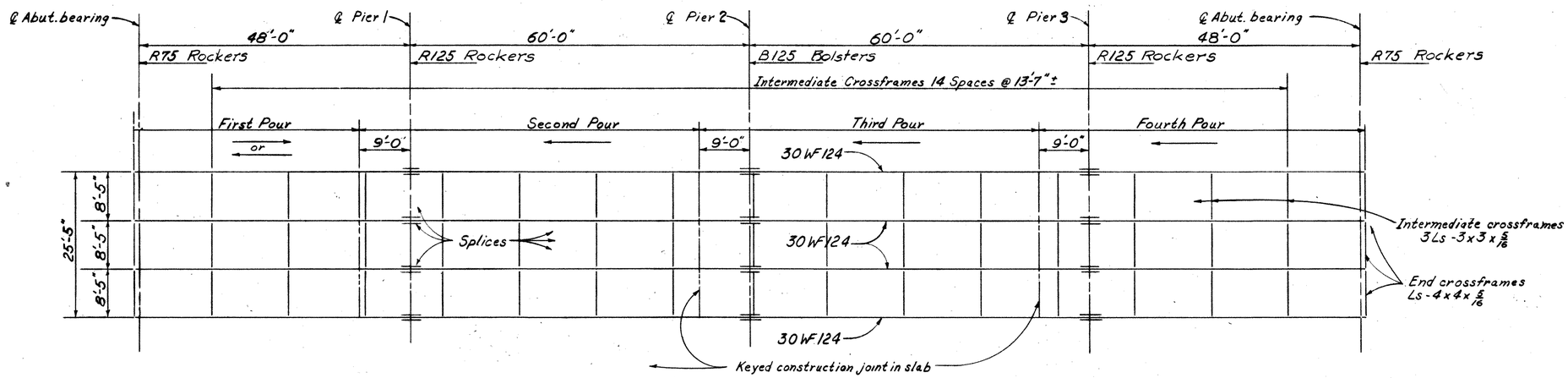


DIAGRAM SHOWING STAGGER OF S602 BARS OVER PIERS.



ROADWAY CROWN

DEFLECTION AND CAMBER				
LOCATION	Outside Beams		Inside Beams	
	END SPAN	MIDDLE SPAN	END SPAN	MIDDLE SPAN
Deflection due to weight of steel	1/32	1/16	1/32	1/16
Deflection due to remaining dead load	7/16	1/2	1/4	1/4
Convexity required for vertical curve	5/16	9/16	5/16	9/16
Sum of deflection and convexity	25/32	1 1/8	13/32	7/8
Required camber	1	1 1/8	0	1



STEEL FRAMING PLAN & CONCRETE POURING SEQUENCE

BEAM SPLICE WELDING PROCEDURE

1. Raise end of beam at pier #2 - 1¼".
2. At Pier 1 butt weld the beam flanges and and web using the following sequence: Make one pass on each flange, then one on the web; repeat until welds are completed
3. Weld top and bottom moment plates at pier #1.
4. Lower end of beam at pier #2.
5. Make splices at piers #2 & 3 in same way raising beam at pier #3 - 1¼" & and at abutment ⅝".

INTIAL SUBMISSION DATE 8-7-56			FINAL APPROVAL DATE
REVISED		APPROVAL	
9-12-56			
10-8-56			

VARO ENGINEERS
COLUMBUS AND NEWARK OHIO

SUPERSTRUCTURE DETAILS
BRIDGE NO. AUG 25-0608
MIDDLE PIKE OVER U.S.R. 25
AUGLAIZE COUNTY U.S.R. 25
STA. 371+37.58

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RWM	J.E.S.					

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

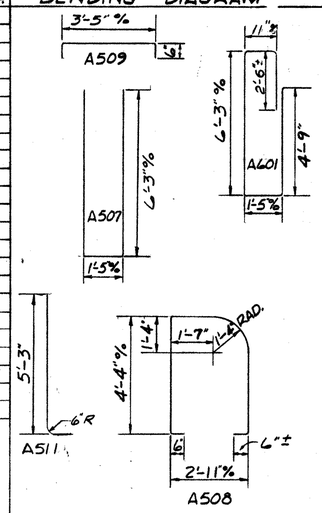
395
466

AUGLAIZE COUNTY
AUG.-25-5.05

REINFORCING STEEL LIST

MARK	NO.	LENGTH	WEIGHT	SHP
ABUTMENTS				
A601	42	15'-2"	962	B
A501	10	28'-0"	292	S
A502	24	21'-0"	526	S
A503	4	9'-11"	41	S
A504	20	4'-4"	90	S
A505	20	7'-6"	156	S
A506	48	8'-0"	401	S
A507	4	13'-8"	57	B
A508	12	11'-7"	145	B
A509	40	4'-2"	176	B
A510	58	3'-9	226	S
A511	58	6'-6"	393	B
REPLACEMENT BARS				
RE9	1	6'-10"	23	S
RE8	1	6'-6"	17	S
RE6	2	5'-11"	18	S
RE5	1	5'-7"	6	S
RE4	1	5'-3"	4	S
RESP4	1	5'-3"	4	B

BENDING DIAGRAM

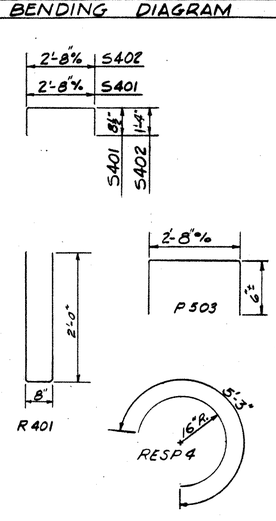


STEEL SUPERSTRUCTURE LIST

MARK	NO.	LENGTH	WEIGHT	SHP
S601	326	30'-0"	14690	S
S602	60	24'-0"	2163	S
S603	357	32'-6"	4783	S
S501	327	30'-0"	10232	S
S401	290	3'-10"	743	B
S402	290	5'-1"	986	B
RAILING REINFORCING				
R401	292	4'-5"	*	B
R402	96	14'-6"	*	B
R403	16	19'-3"	*	S
R501	40	3'-11"	*	S
R502	24	4'-3"	*	S

* Included with Item S-14 Railing for payment

BENDING DIAGRAM

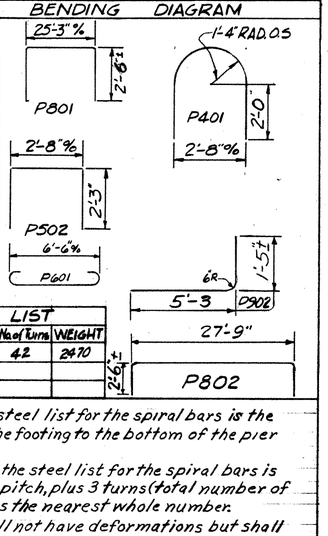


LIST

MARK	NO.	LENGTH	WEIGHT	SHP
PIERS				
P901	90	16'-9"	5125	S
P902	90	6'-5"	1964	B
P801	21	29'-9"	1668	B
P802	6	32'-3	517	B
P601	45	7'-10"	529	B
P602	36	5'-6"	297	S
P501	6	25'-3"	158	S
P502	102	6'-11"	736	B
P503	48	3'-6"	175	B
P401	12	8'-2"	65	B

SPIRAL REINFORCING LIST						
MARK	NO.	DIA. %	LENGTH	PITCH	No. of Turns	WEIGHT
SP401	9	32"	14'-8"	4½	42	2470

BENDING DIAGRAM



The "Length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap.
The "No. of Turns" shown in the steel list for the spiral bars is the "Length" divided by the pitch, plus 3 turns (total number of closed coils), expressed as the nearest whole number.
Spiral reinforcing bar shall not have deformations but shall in other respects conform to Item S-4.
1½ closed coils shall be provided at the ends of each spiral unit.

Four steel channel, tee or angle spacers, weighing approximately 0.68 lb. per lin. ft. of spacer shall be provided for each spiral unit. They shall be equally spaced along periphery of the coil. The number of pounds of these spacers based on 0.68 lb. per lin. ft. will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

General Note
BAR SIZE is indicated in the bar mark. The first digit indicates the bar size number. For example, A601 is a No. 6 size bar.

INTIAL SUBMISSION DATE 9-7-56				FINAL APPROVAL DATE
REVISED		APPROVED		
9-12-56				

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

REINFORCING STEEL LIST

BRIDGE NO. AUG. 25-0608
MIDDLE PIKE OVER U.S.R. 25
AUGLAIZE COUNTY U.S.R. 25
STA. 371+37.58

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RWM	M.H.		MR	A.W.B.		

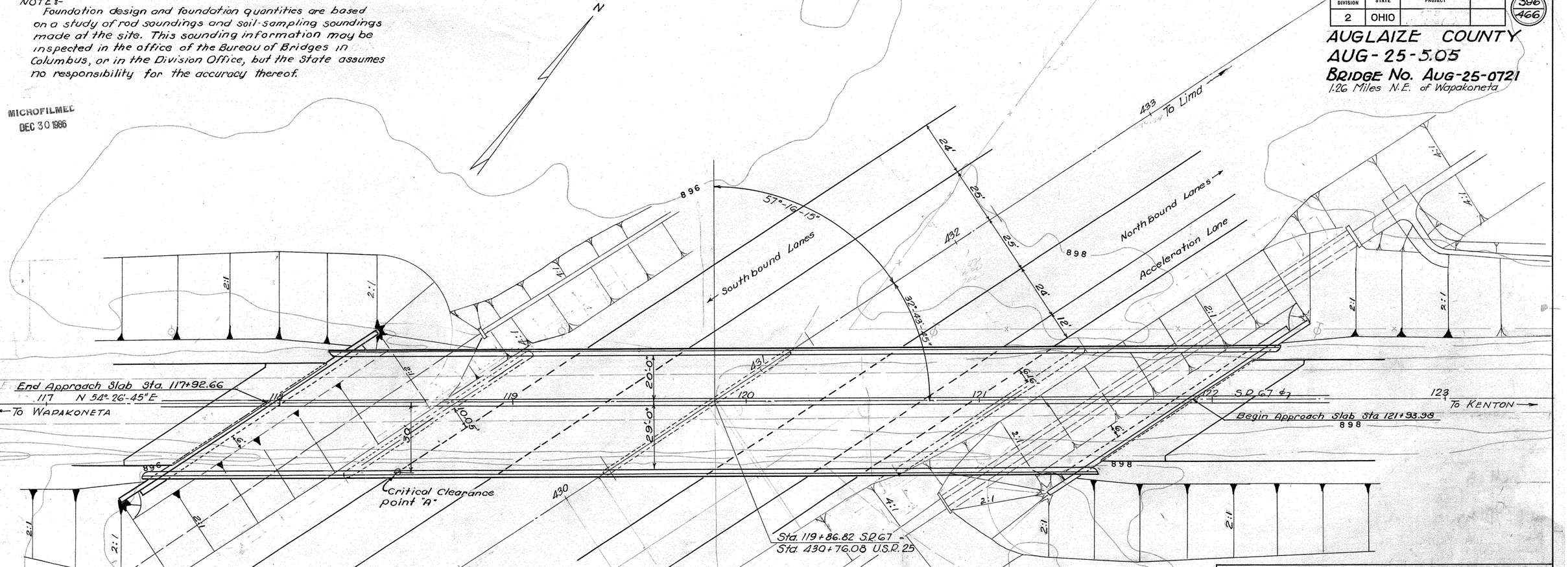
NOTE:- Foundation design and foundation quantities are based on a study of rod soundings and soil-sampling soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus, or in the Division Office, but the State assumes no responsibility for the accuracy thereof.

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

396/466

AUGLAIZE COUNTY
AUG-25-5.05
BRIDGE No. AUG-25-0721
1.26 Miles N.E. of Wapakoneta

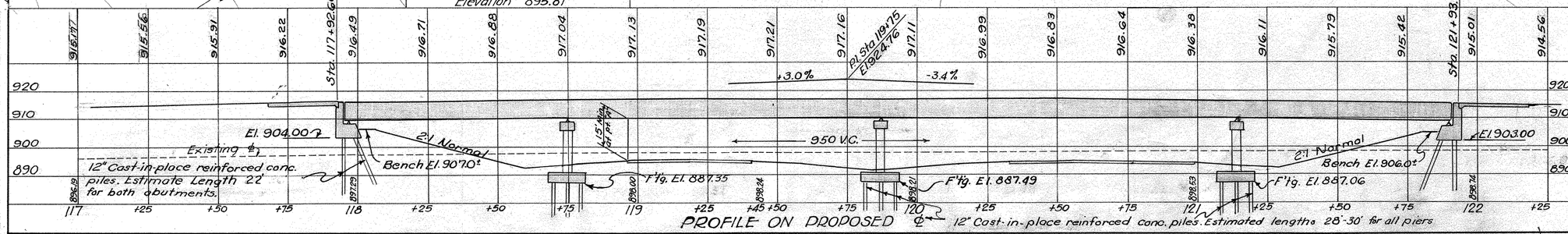


PROPOSED STRUCTURE

TYPE:- Continuous plate girders with reinforced concrete deck and reinforced conc. substructure
SPANS:- 78'-112'-127'-76' ℄s brgs
ROADWAY:- 49'-0" f/f 2'-0" safety curbs (including median)
LOAD FREQ:- CF 130(51)
SKEW:- 57°-16'-15" L. Fwd.
WEARING SURFACE:- 3/4" Monolithic Concrete
APPROACH SLABS:- AS-1-54 (25' long)
ALIGNMENT: Tangent

BRIDGE LIMITS

BENCH MARK
B.M. #17 R.R. Spike in ℄ 150' Lt. of Sta. 428+93 (U.S.R. 25)
Elevation 895.81



PROFILE ON PROPOSED ℄ 12" Cast-in-place reinforced conc. piles. Estimated lengths 28'-30' for all piers

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO AUG. 25-0721
S.R. 67 OVER U.S.R. 25
AUGLAIZE CO. S.R. 67
SEC. STA. 430+76.08
SCALE 1" = 20'

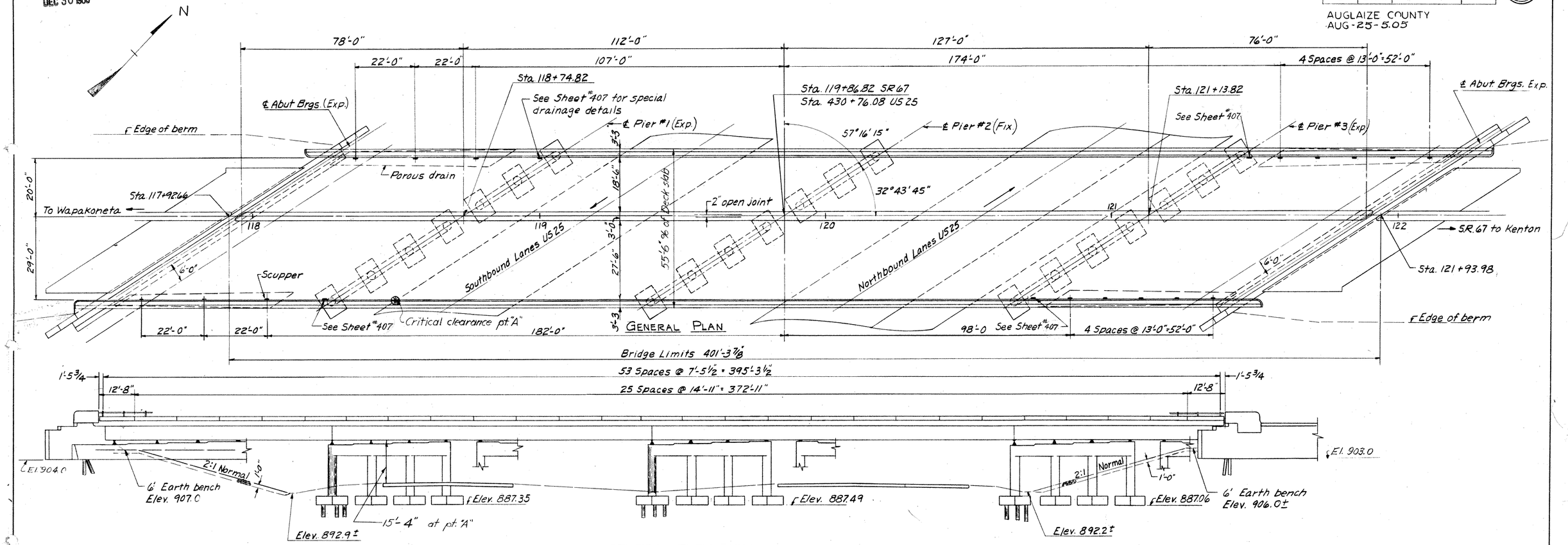
PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
Aerial Survey	Aerial Survey	J.H.B.	J.H.B.	D.I.C.	P.E.S.

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

397
466

AUGLAIZE COUNTY
AUG-25-5.05



GENERAL ELEVATION

Item	Total	Unit	Description	Superst.	Abuts.	Piers	Gen'l.	As Built		
E-2	lump sum	lump	Cofferdams, cribs and sheeting				lump			
E-2	648	Cu. Yds.	Unclassified excavation		207	441				
S-1	337	Cu. Yds.	Class "E" concrete, abutments		337					
S-1	117	Cu. Yds.	Class "E" concrete, pier footings			117				
S-1	644	Cu. Yds.	Class "C" concrete, superstructure	644						
S-1	180	Cu. Yds.	Class "C" concrete, pier caps and columns			180				
S-3	26	lin. ft.	Waterproofing, premolded sealing strip		26					
S-4	~~229045~~ 228,739	lbs.	Reinforcing steel	167367	18573	42916	~~189~~	C-17, -20	228,739	1
S-7	~~788000~~ 802,543	lbs.	Structural steel	788000				C-19, +14, +16 C-18, +303	802,543	1
S-8	~~788000~~	lbs.	Field painting of structural steel	788000				C-19, +18, +20 C-18, +303	802,543	1
S-9	74	Sq. ft.	1" premolded expansion joint filler		74					
S-14	820.67	lin. ft.	Railing, aluminum rail and supports with concrete parapet and end posts	820.67						
S-16	lump sum	lump	First test pile				lump			
S-18	~~5000~~ 4098	lin. ft.	12" cast-in-place reinforced concrete piling		1410	3650		C-18, -302	4098	1
S-29	99	Cu. Yds.	Porous backfill		99					
S-29	45	Cu. Yds.	Porous drains on embankment slopes and under down spouts at piers.				45			
S-29	80	lin. ft.	6" Wrought iron pipe including specials				80			

GENERAL NOTES

SURFACE FINISH OF CONCRETE: Railing end posts, curb faces, fascias of the deck and exposed surfaces of piers, abutments and wing walls, shall receive a rubbed surface finish. All other exposed Surfaces shall be governed by the provisions of item S-1

POROUS DRAINS, extending from face of abutment to elevations shown shall be provided at all four corners of the bridge. The drains shall be 6 feet wide at low end, tapering to 4 feet wide at the face of abutment, and one foot thick.

PILES shall be driven to a minimum bearing capacity of 20 tons for the abutments and 30 tons for the piers. The length of penetration of every pile shall be at least 80% of the estimated average pay length of the piles in the pertinent pier or abutment as indicated on the plans unless a lesser penetration is approved by the Director

For additional notes see sheet 376

Initial Submission Date 9-17-56		Final Approval Date
Revised	Approved	
9-27-56		

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

GENERAL PLAN & ELEVATION ESTIMATED QUANTITIES

BRIDGE No. AUG 25-0721
SR 67 OVER US 25
AUGLAIZE COUNTY US 25
STA. 430+76.08

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
A.W.P.	RA		~~A.R.~~	A.W.P.		

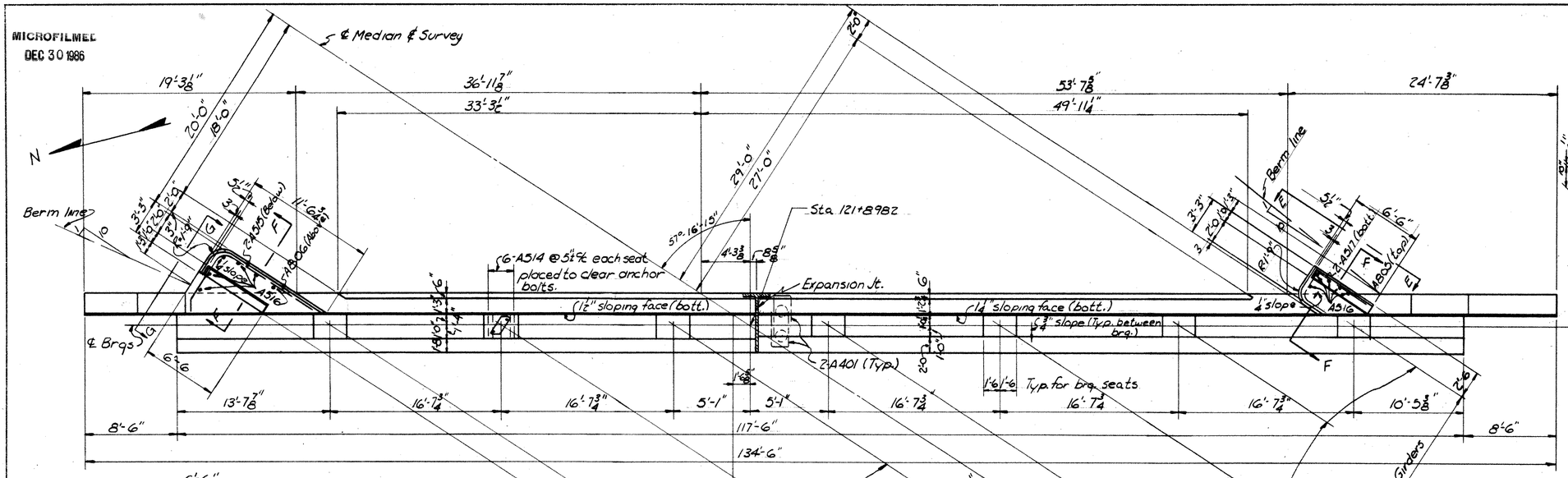
1 Revised As-Built H.E.R. 7-20-59

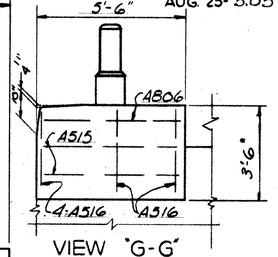
MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

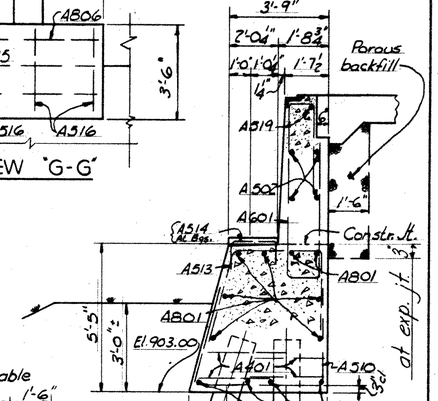
398
466

AUGLAIZE CO.
AUG. 25- 5.05





VIEW "G-G"



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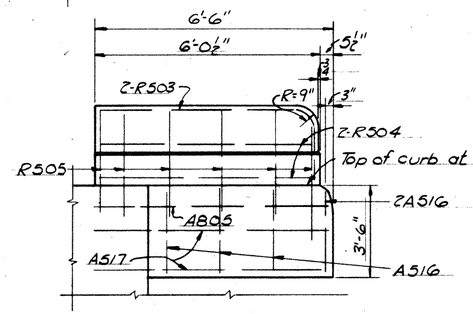
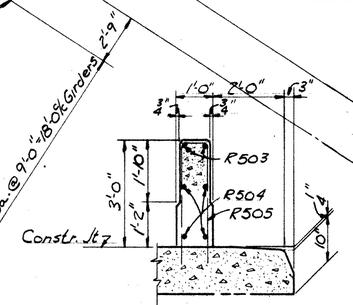


VIEW E-E

PLAN



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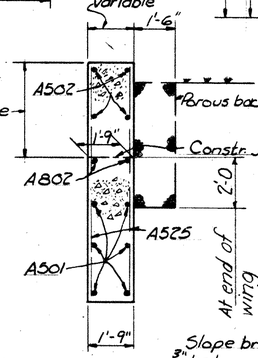

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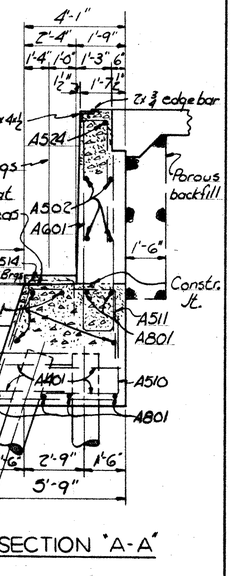
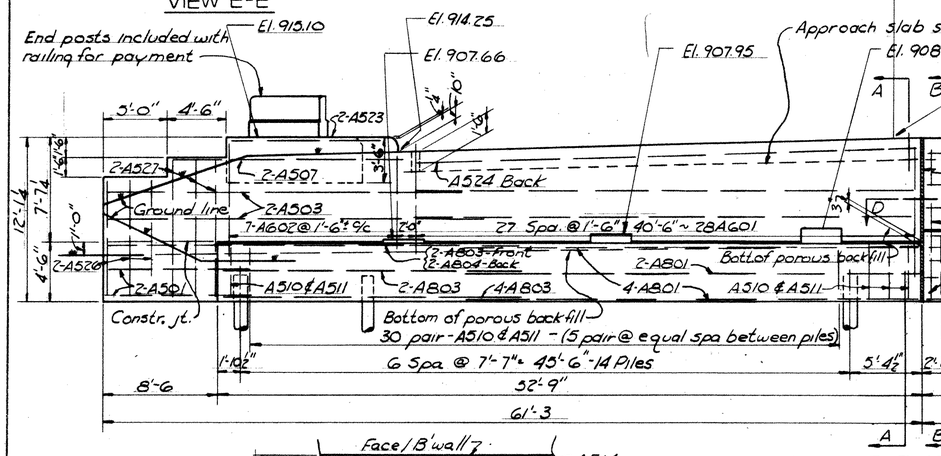
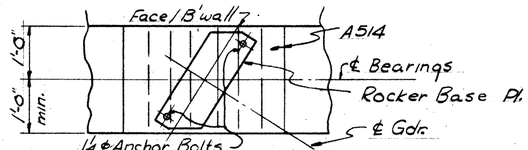


SECTION "A-A"



ELEVATION



ENLARGED PLAN AT G'DR. BRGS.

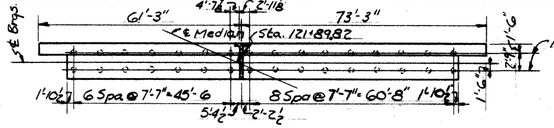


DIAGRAM SHOWING ARRANGEMENT OF PILES

Note:
See sheet 399 for Section "D-D" and "Abutment Notes"

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

EAST ABUTMENT DETAILS
BRIDGE NO. AUG-25-0721
SR 67 OVER USR 25
AUGLAIZE COUNTY U.S.R. 25
STA. 430+76.08

INITIAL SUBMISSION DATE 5-17-56		FINAL APPROVAL DATE
REVISED	APPROVED	
9-29-56		

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
D.W.P.	FEE	JRK	H.S.R.	DWP		

MICROFILMED
DEC 30 1986

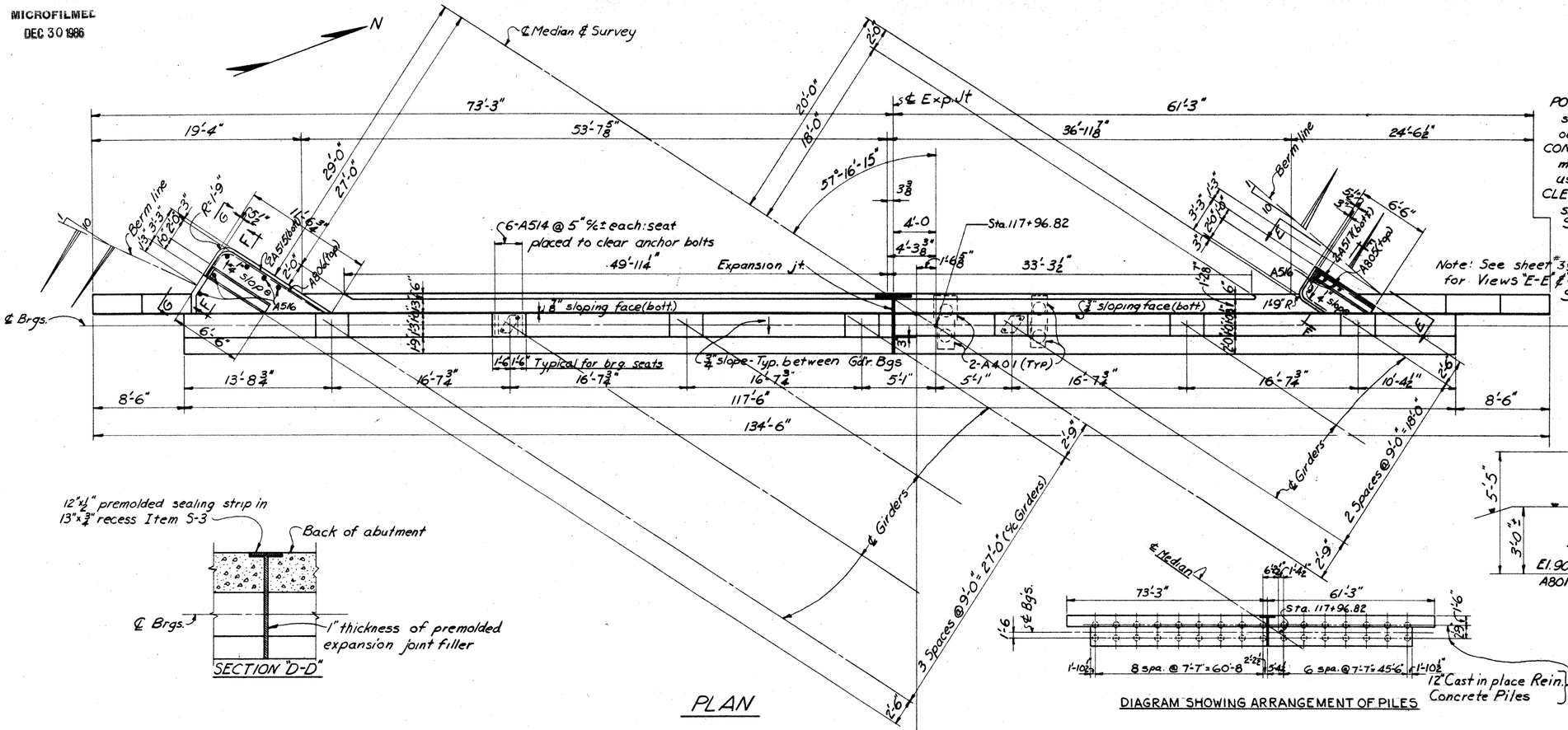
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

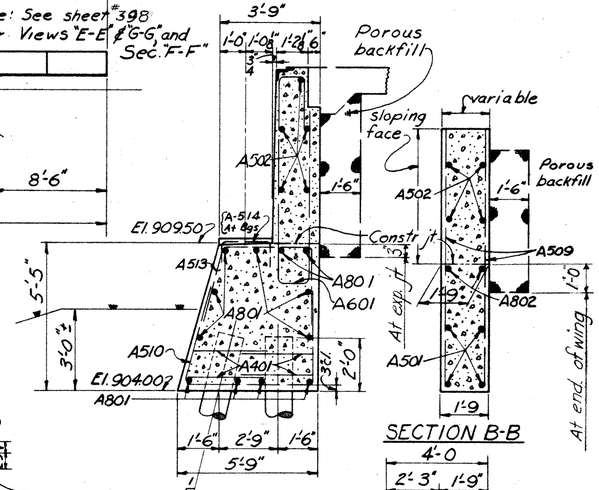
399
466

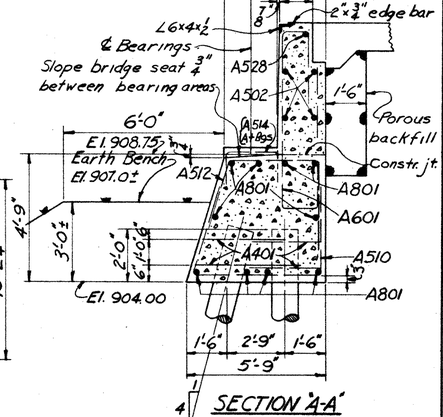
AUGLAIZE COUNTY
AUG-25-5.05

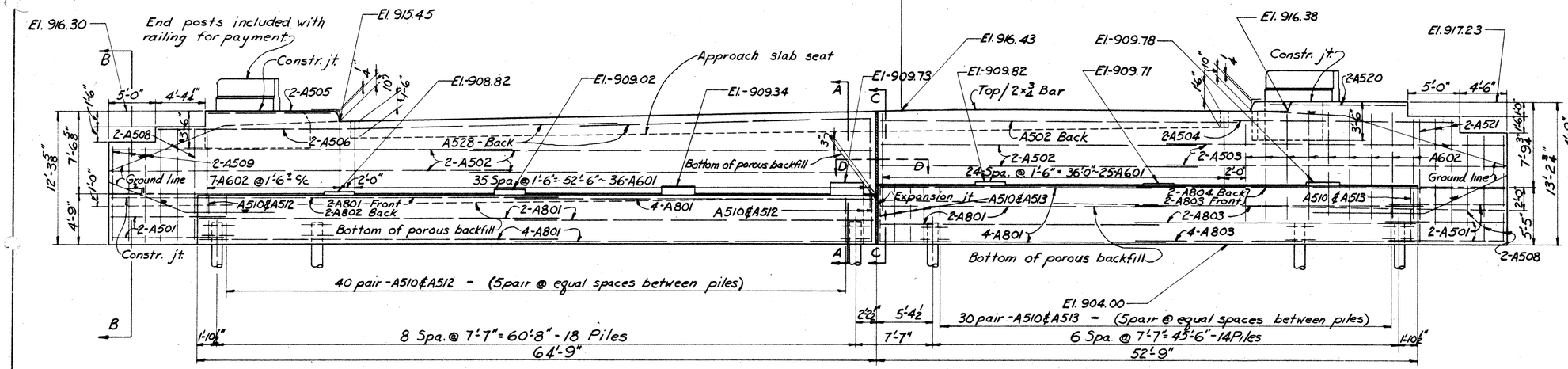
NOTES

POROUS BACKFILL shall extend upward to the approach slab and to the surface of the earth shoulders, and outward to the surface of the embankment slopes
CONCRETE shall be Class "E" and the payment will be made on this basis, but Class "C" concrete may be used for any or all parts of the abutment.
CLEARANCE from face of concrete to reinforcing steel shall be 2" unless othwise shown.
See Sheet 398 for Enlarged Plan at G'd'r B'g's.









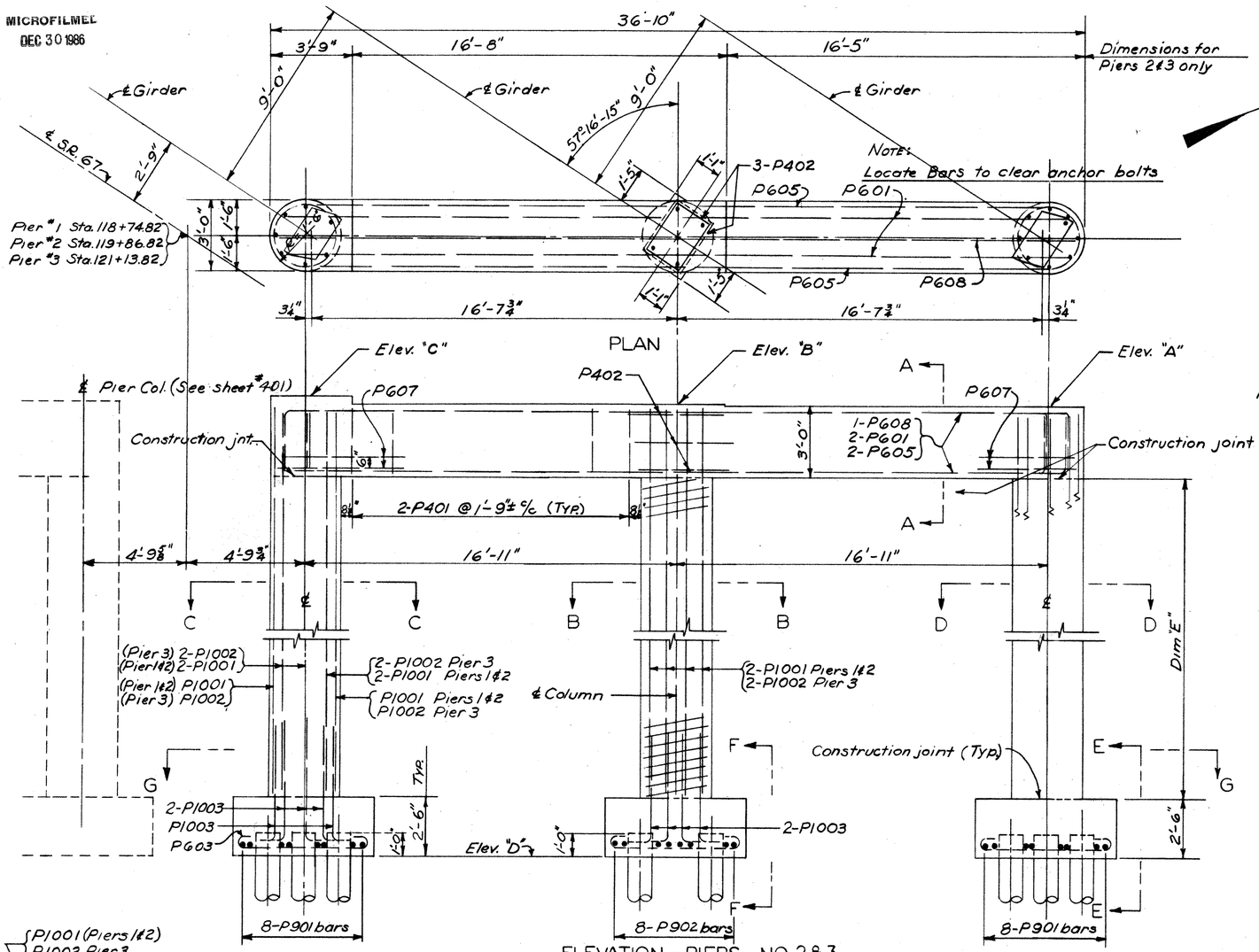
INITIAL SUBMISSION DATE 9-17-56			FINAL APPROVAL DATE
REVISED	APPROVED		
9-28-56			

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

WEST ABUTMENT DETAILS
BRIDGE NO AUG-25-0721
SR 67 USR 25
AUGLAIZE COUNTY USR 25
STA. 430+760.08

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
D.W.P.	FEE	B.K.	H.S.R.	D.W.P.	3	

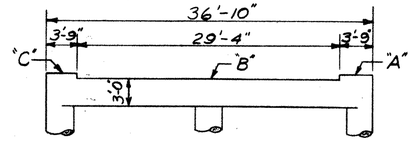
MICROFILMED
DEC 30 1986



SECT. C-C (SHOWN)
SECT. D-D (OPP HAND)

ELEVATION – PIERS NO 2&3

SECTION G-G

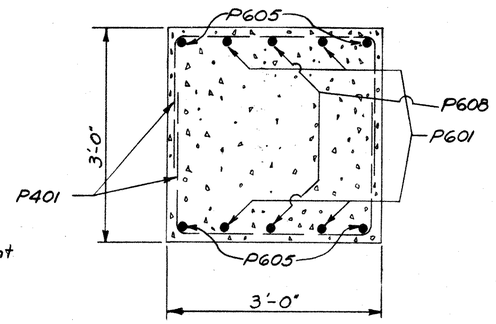


BRIDGE SEAT ELEVATIONS AND DIMENSIONS FOR PIER # 1
(other details same as piers #2 & #3)

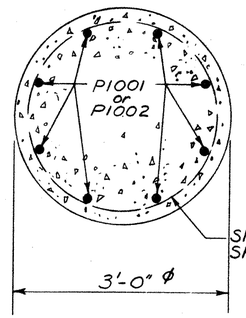
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

AUGLAIZE COUNTY
AUG-25-5.05

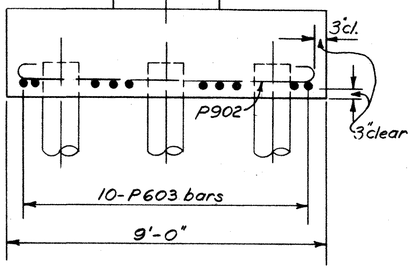
400
466



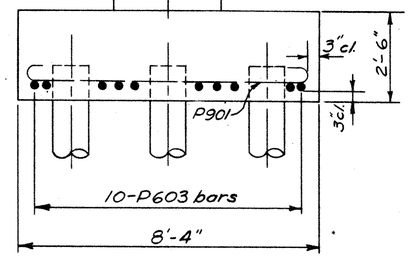
SECTION A-A



SECTION B-B



VIEW F-F



VIEW E-E

Concrete shall be Class "C" for columns and beams, Class "E" for footings.

The clearance from the face of concrete to the reinforcing steel shall be 2" unless otherwise noted.

Locate P601-5-8 bars in periphery of P1001-2 bars and wire together

ELEVATIONS AND DIMENSIONS

	A	B	C	D	E
Pier 1	909.70	909.60	909.91	887.52	16'-7"
Pier 2	909.40	909.43	909.80	887.32	16'-7"
Pier 3	908.36	908.50	909.00	887.28	15'-7"

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

PIER DETAILS

BRIDGE No AUG-25-0721
SR 67 OVER USR 25
AUGLAIZE COUNTY SR 67
STA 430+76.08

INITIAL SUBMISSION DATE 3-17-36				FINAL APPROVAL DATE
REVISED		APPROVED		
9-29-36				

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
D.W.P.	G.E.	HPW 10-8-36	H.S.P.	D.W.P.		

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

401
466

AUGLAIZE COUNTY
AUG-25-5.05

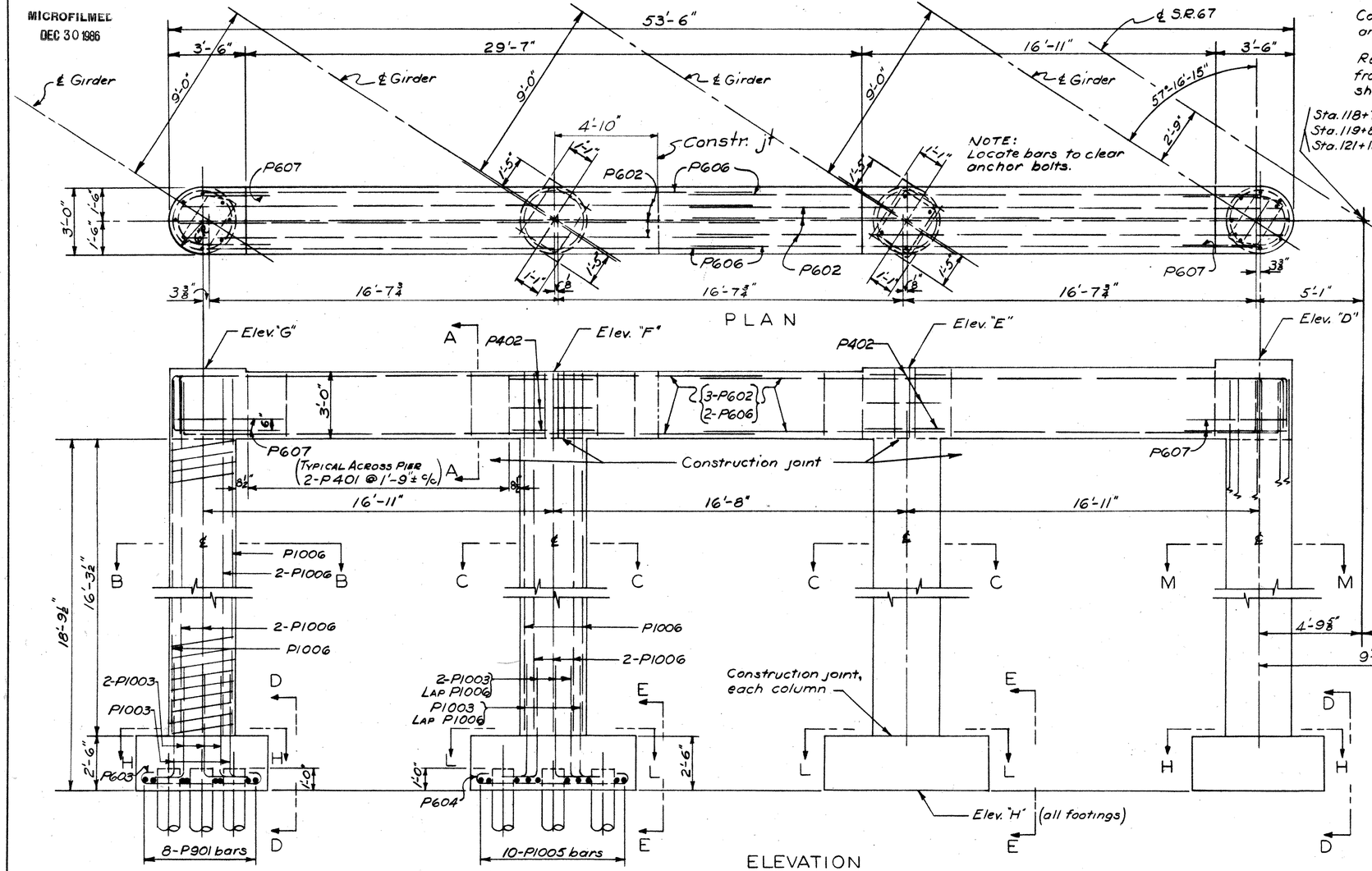
Concrete shall be Class "C" for columns and beams, Class "E" for footings.

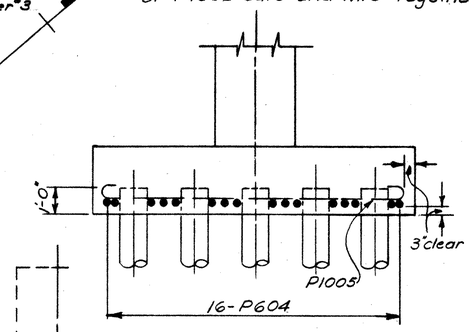
Reinforcing Steel shall be 2" clear from face of concrete unless otherwise shown.

Sta. 118+74.82 Pier #1
Sta. 119+86.82 Pier #2
Sta. 121+13.82 Pier #3

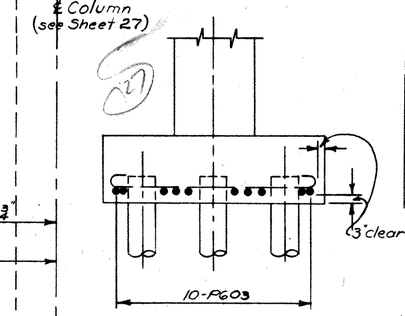
N

Locate P602-6 bars in periphery of P1006 bars and wire together

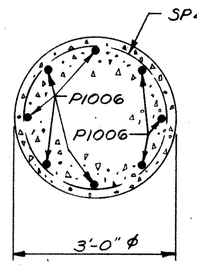




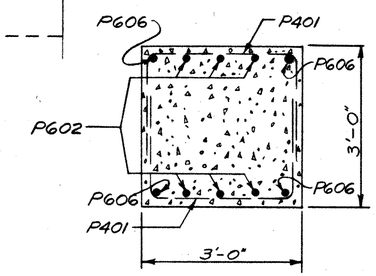
VIEW E-E



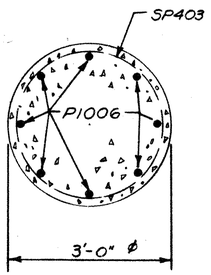
VIEW D-D



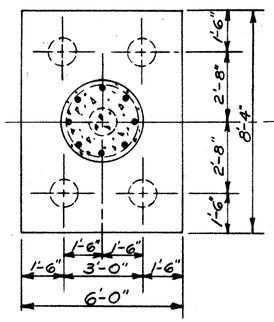
SECTION B-B (SHOWN)
SECTION M-M (OPP. HAND)



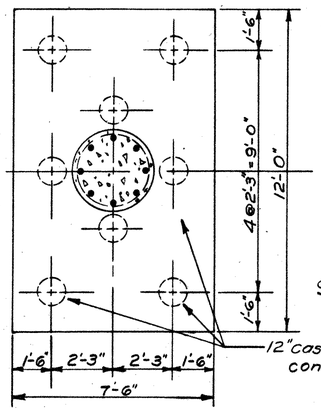
SECTION A-A



SECTION C-C



SECTION H-H



SECTION L-L

	D	E	F	G	H
Pier 1	909.84	909.37	909.14	909.15	887.35
Pier 2	909.77	909.41	909.28	909.40	887.49
Pier 3	908.99	908.85	908.85	908.97	887.06

INITIAL SUBMISSION DATE 9-17-56		FINAL APPROVAL DATE
REVISED	APPROVED	
9-29-56		

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

PIER DETAILS

BRIDGE No AUG. 25-0721
S.R. 67 OVER U.S.R. 25
AUGLAIZE COUNTY U.S.R. 25
STA. 430 76.08

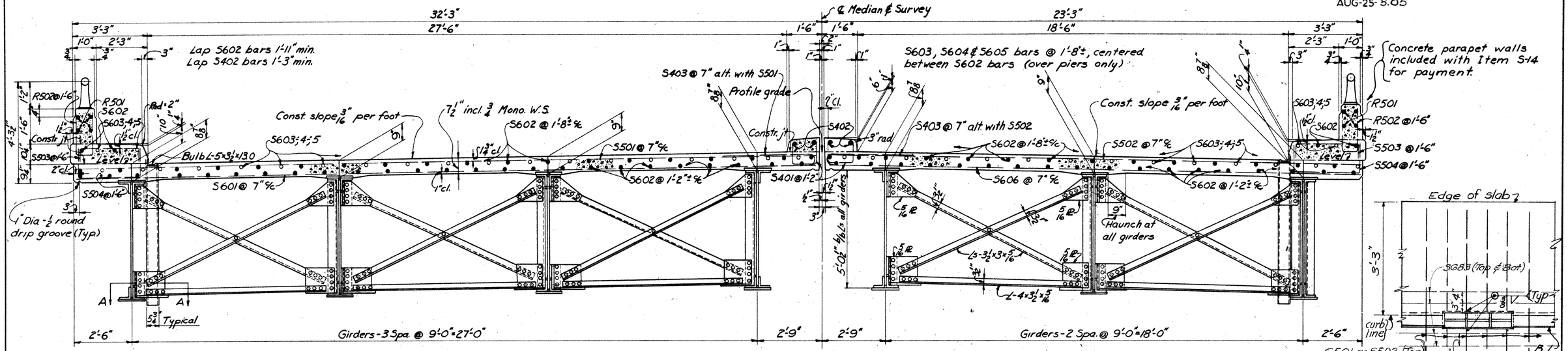
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
D.W.P.	G.E.	HFM 10-10-56	H.S.R.	D.W.P.		

MICROFILMED
DEC 30 1986

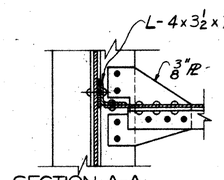
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

402
466

AUGLAIZE CO.
AUG-25-5.05



TRANSVERSE SECTION



PLAN OF TRANSVERSE STEEL AT LARGE SCUPPERS

DECK SLAB PLAN

(Curb, Median, Parapet & Scuppers not shown)

DIAGRAM SHOWING STAGGER OF S603, S604 AND S605 BARS OVER PIERS 1, 2 AND 3

INITIAL SUBMISSION DATE 9-17-56		FINAL APPROVAL DATE
REVISED	APPROVED	
9-29-56		
10-8-56		

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

SUPERSTRUCTURE DETAILS
BRIDGE NO. AUG-25-0721
SR-67 OVER USR-25

AUGLAIZE COUNTY — USR 25 STA 430+76.08

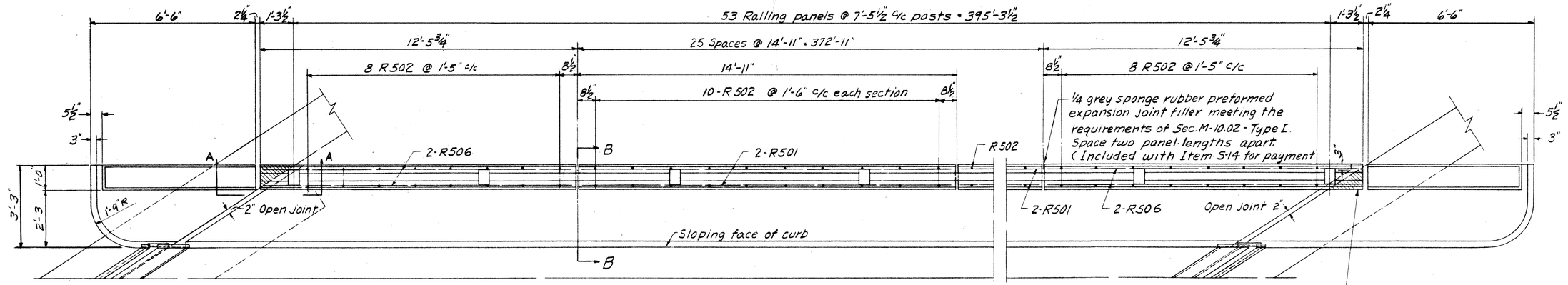
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
[illegible]	FEE	B.K.	[illegible]	[illegible]		

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

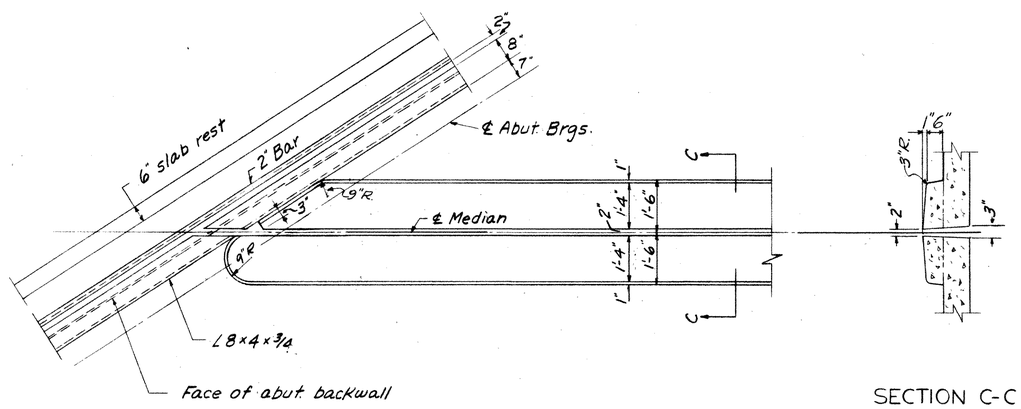
403
466

AUGLAIZE COUNTY
AUG 25-5.05



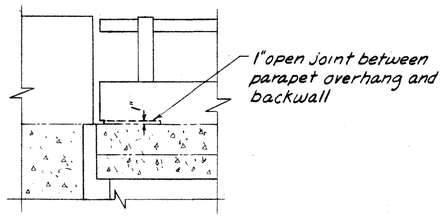
PLAN
PARAPET WALL DETAILS

NOTE: Shaded area is 1" open joint between top of abutment backwall and bottom/parapet

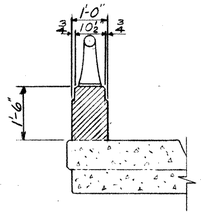


MEDIAN DETAIL AT ABUTMENT

SECTION C-C



SECTION A-A



SECTION B-B
Sectioned area shows limits of rubber expansion joint filler.

NOTES: See sheet 402 for typical section of superstructure
For parapet wall details at Abutments see sheets 398+399

Initial Submission Date 9-17-56		Final Approval Date
Revised	Approved	
9-29-56		

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

SUPERSTRUCTURE DETAILS

BRIDGE No. AUG. 25-0721
S.R. 67 OVER U.S.R. 25
AUGLAIZE COUNTY U.S.R. 25
STA. 430+76.08

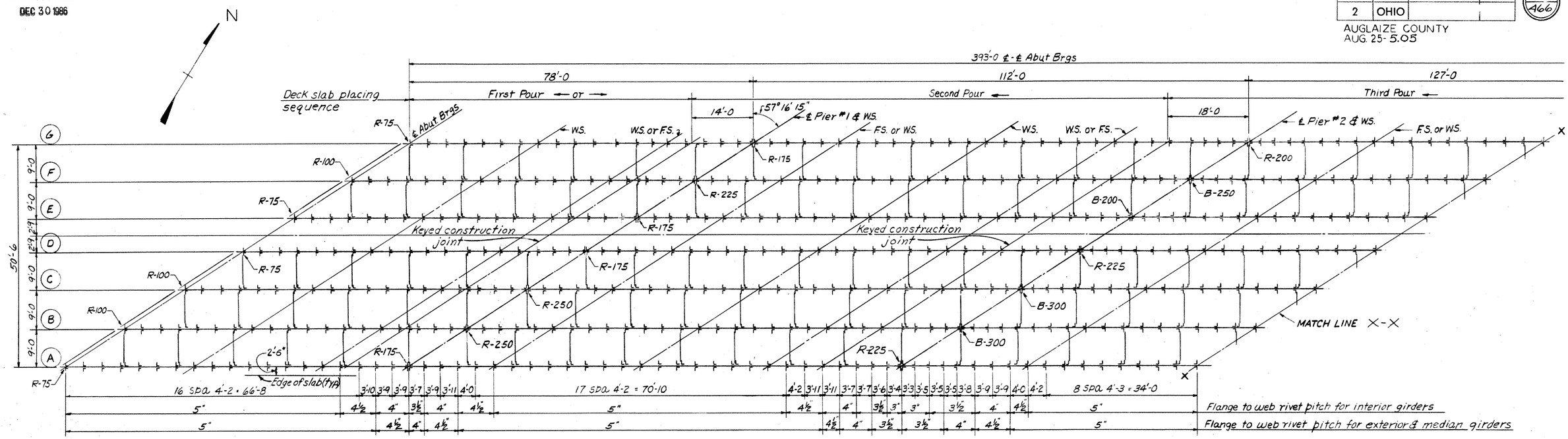
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
DWP	RA		HLC	DWP		

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

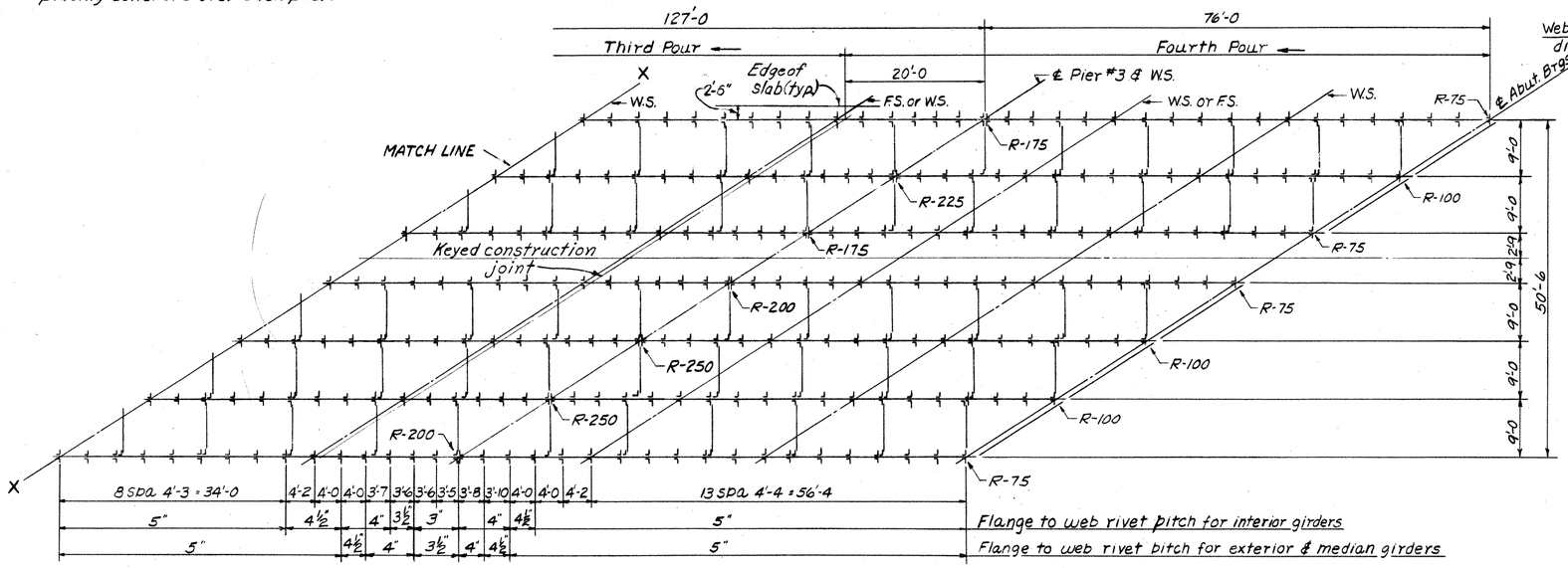
404
466

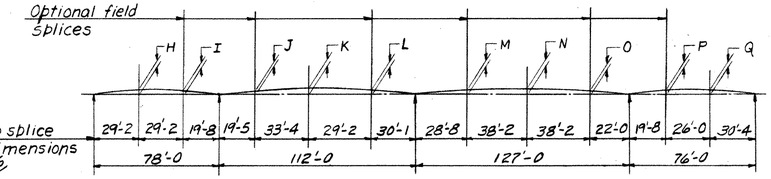
AUGLAIZE COUNTY
AUG. 25- 5.05



DECK CONSTRUCTION PROCEDURE: The deck slab shall be placed in sections, between transverse construction joints, in the numerical order and in the direction indicated on "The Steel Framing Plan and Concrete Pouring Sequence," in order that the major portion of the dead load deflection will occur prior to placing concrete over each pier.

STEEL FRAMING PLAN





CAMBER DIAGRAM

DEFLECTION AND CAMBER IN INCHES																																	
	GIRDER A&G										GIRDERS B, C, & F										GIRDERS D&E									
Location	H	I	J	K	L	M	N	O	P	Q	H	I	J	K	L	M	N	O	P	Q	H	I	J	K	L	M	N	O	P	Q
Deflection due to weight of steel	.08	.03	.06	.15	.06	.17	.32	.15	.00	.04	.07	.03	.04	.10	.04	.14	.27	.12	.00	.14	.08	.03	.06	.15	.06	.17	.32	.15	.00	.04
Deflection due to remaining dead load	.50	.20	.40	.93	.37	1.06	2.07	.95	.00	.29	.22	.09	.14	.34	.13	.45	.88	.40	.00	.11	.30	.12	.24	.57	.23	.64	1.27	.58	.00	.17
Convexity required for vertical curve	.59	.49	.73	1.27	1.00	1.14	1.63	.93	.44	.56	.59	.49	.73	1.27	1.00	1.14	1.63	.93	.44	.56	.59	.49	.73	1.27	1.00	1.14	1.63	.93	.44	.56
Sum of deflection and Convexity	1.17	.72	1.19	2.35	1.43	2.37	4.02	2.03	.44	.89	.88	.61	.91	1.71	1.17	1.73	2.29	1.45	.44	.71	.97	.64	1.03	1.99	1.29	1.95	3.22	1.66	.44	.77
Required camber	1¼	¾	1¼	2⅜	1½	2⅜	4	2	½	⅞	⅞	⅝	⅞	1⅜	1¼	1¾	2¼	1½	½	⅜	1	⅝	1	2	1¼	2	3¼	1⅝	½	⅞

LEGEND
W.S. is web splice
F.S. is field splice

INTIAL SUBMISSION DATE 9-17-54		FINAL APPROVAL DATE
REVISED	APPROVED	
9-29-54		

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

FRAMING PLAN

BRIDGE No. 25-0721
SR 67 OVER US 25
AUGLAIZE COUNTY US 25
STA 430+76.08

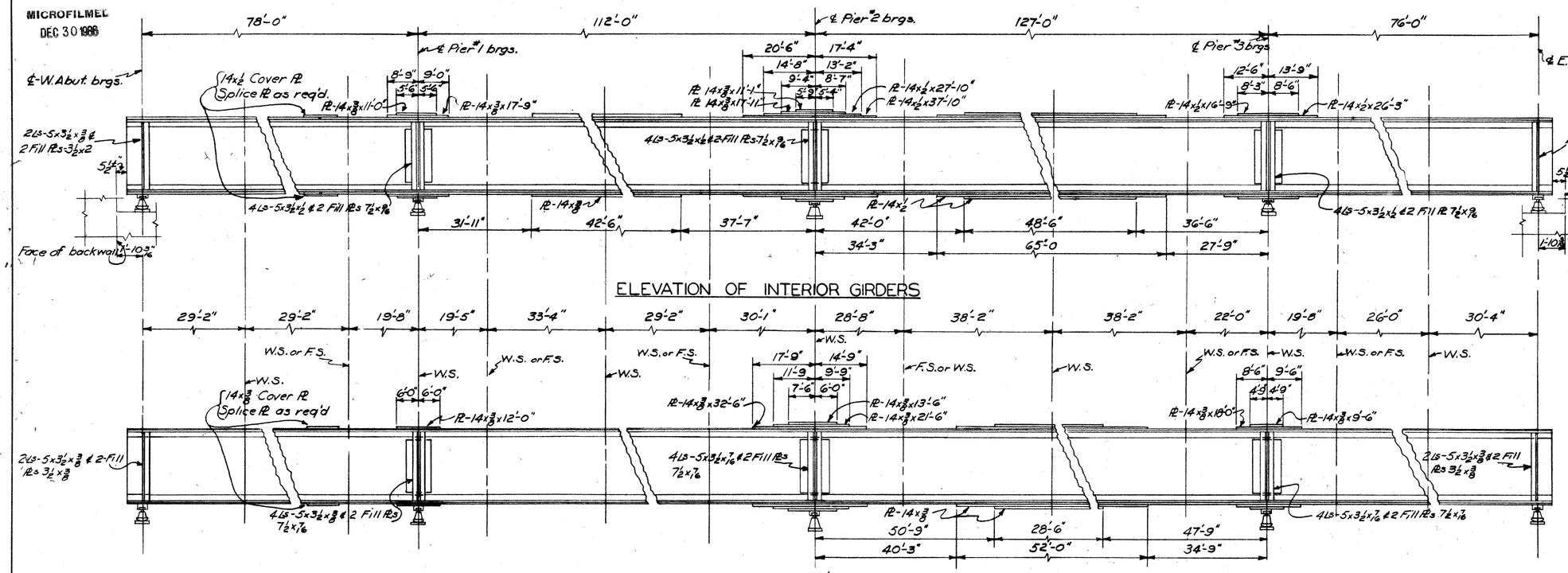
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
AWP	RA		HAK	AWP		

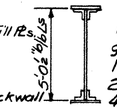
MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

405
466

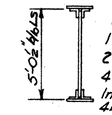
AUGLAIZE COUNTY
AUG 25-5.05





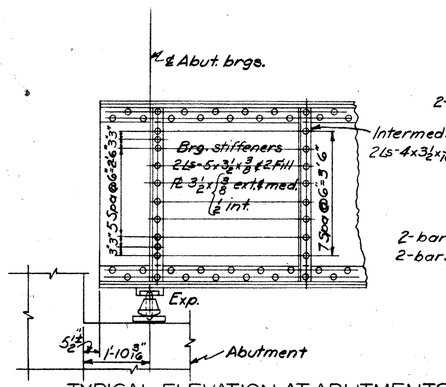
Basic section for interior girder:
1 web Pl-60x⅜
2 cover Pl 14x½
4 Ls 6x6x½
Intermediate stiffener Ls 4x3½x⅝ (crimp)

BASIC SECTION

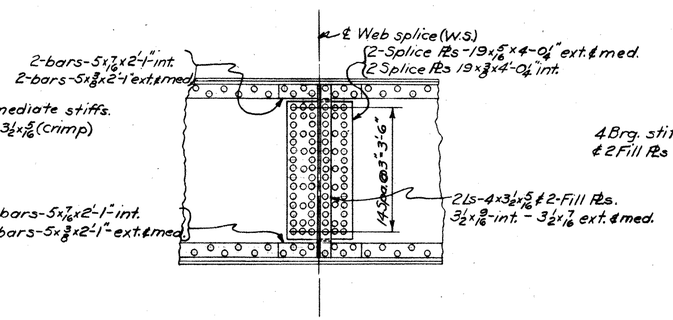


Basic section:
1 web Pl-60x⅜
2 cover Pl-14x⅜
4 Ls-6x6x⅜
Intermediate stiff. Ls 4x3½x⅝ (crimp)

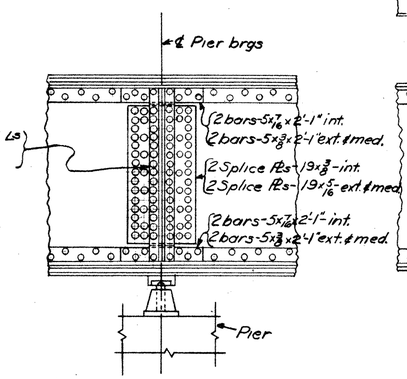
BASIC SECTION



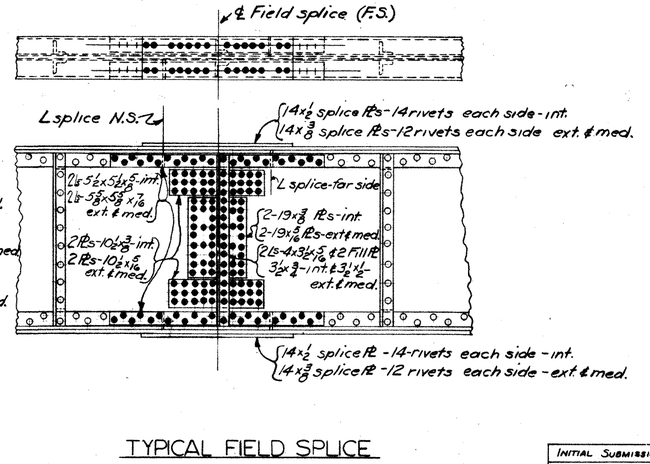
TYPICAL ELEVATION AT ABUTMENTS



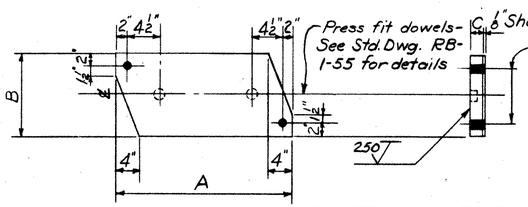
TYPICAL WEB SPLICE



TYPICAL ELEVATION AT PIERS



TYPICAL FIELD SPLICE



ROCKER BASE PLATE DETAILS

ROCKER	A	B	C
R75	24	8	1½
R100	25	10	1½
R175	28	14	2
R200	29	16	2½
R225	30	17	2½
R250	31	18	2½

Dimensions in inches.

For details of Bolsters and Rockers above base plates, see Std. Dwg. RB-1-55 dated 3-1-55

NOTES
RIVETS shall be ⅞" dia. unless otherwise noted.

INTERIOR GIRDER indicated by "int."
EXTERIOR AND MEDIAN GIRDERS indicated by "ext. ℄ med."
FOR girder framing plan showing stiffener spacing and rivet pitch see sheet 404
W.S. indicates web splice.
F.S. indicates field splice.

INITIAL SUBMISSION DATE 9-17-56		FINAL APPROVAL DATE
Revised	Approved	
9-29-56		

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

GIRDER DETAILS
S.R. 67 OVER U.S.R. 25
BRIDGE NO AUG-25-0721
AUGLAIZE COUNTY USR 25
STA. 430+76.08

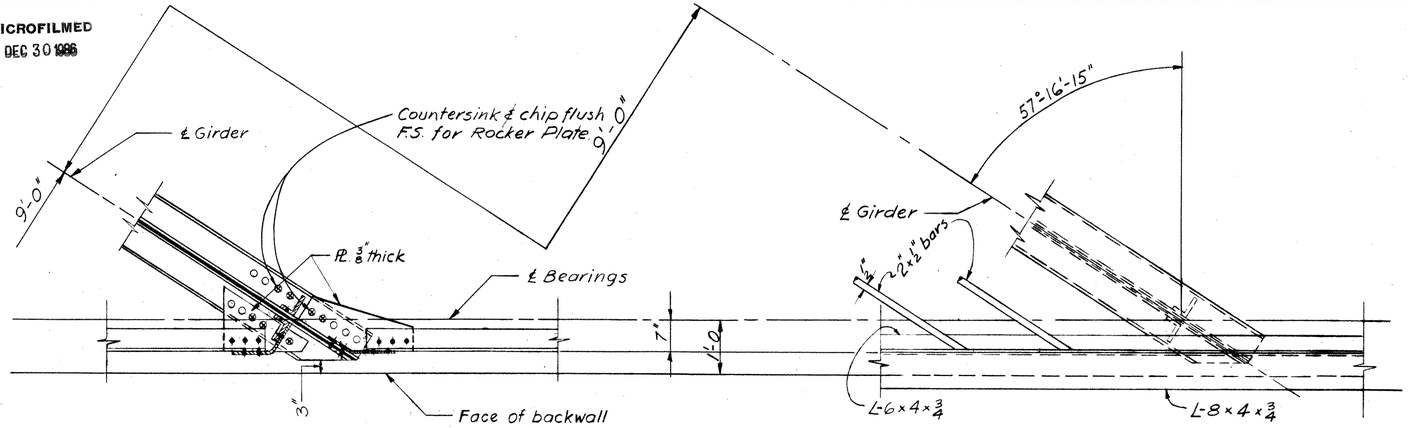
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
D.W.P.	FEE	APM 10-11-56	H.S.R.	D.W.P.		10-31-57

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

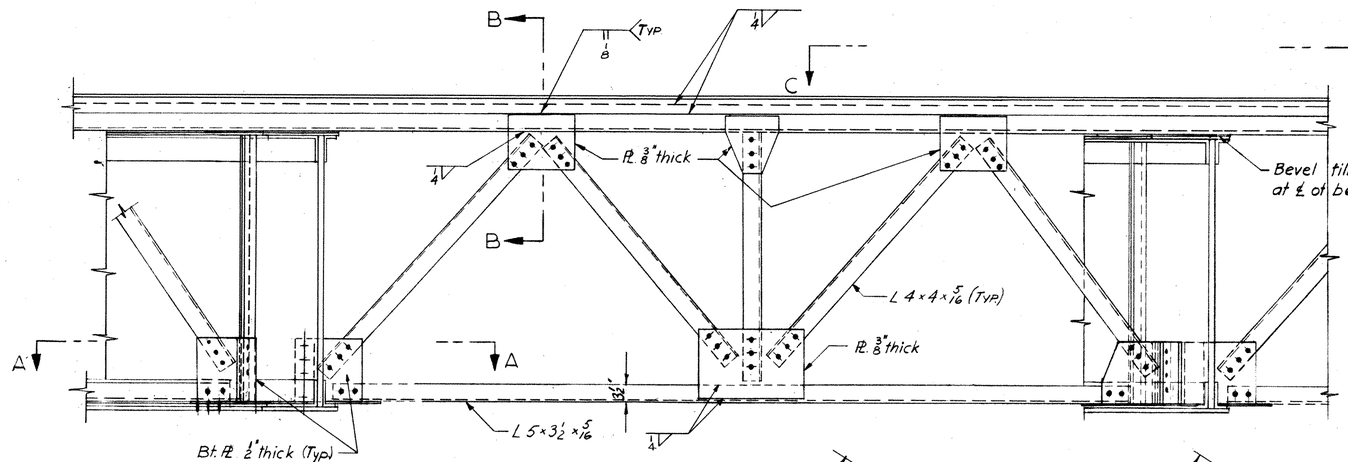
406
466

AUGLAIZE COUNTY
AUG-25-5.05



SECTION A-A

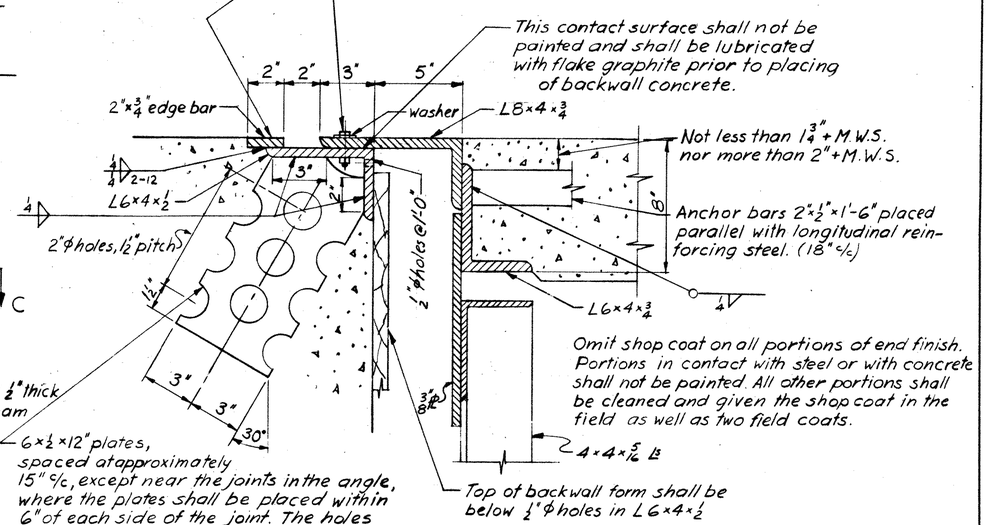
VIEW C-C



ELEVATION

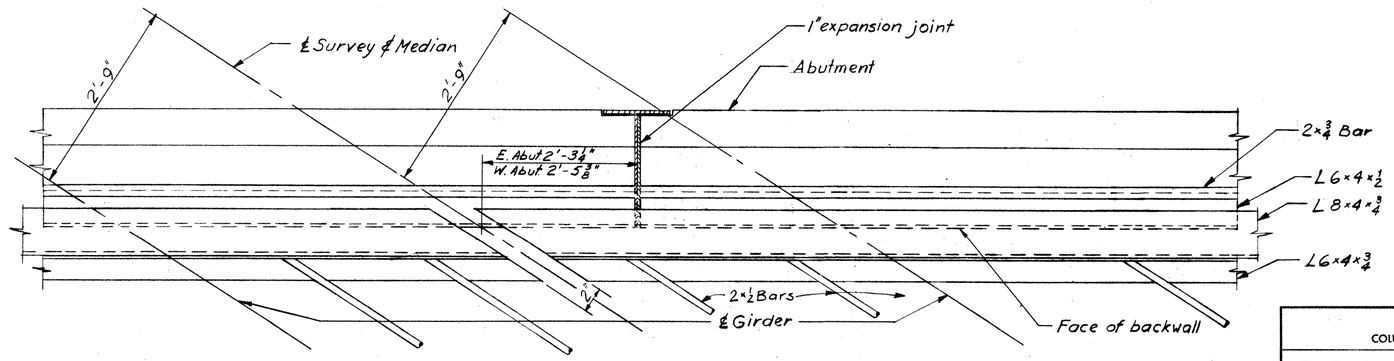
Provide a joint in the edge bar and in the 6x9x1/2 on the center line of the median. Additional joints may be provided at a minimum spacing of 6'-0". (Joints shall not be welded, but shall have a neat fit.

5/8"x2" bolts at not more than 2'-0" c/c, with nuts tack-welded to under side of lower angle. 1" holes in upper angle. Center 5/8" bolts in 1" holes. Apply flake graphite between washers and angle. Turn bolt tight and release one-half turn. Remove bolts as soon as concrete has reasonably set, preferably within two hours, to avoid effect of temperature expansion or contraction of superstructure. Fill holes with bituminous material.



6x1/2x12" plates, spaced at approximately 15" c/c, except near the joints in the angle, where the plates shall be placed within 6" of each side of the joint. The holes may be burned in the plate.

SECTION B-B



PARTIAL PLAN OF END FINISH AT MEDIAN

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

END SWAY FRAME DETAILS
BRIDGE No AUG-25-0721
S.R. 67 OVER U.S.R. 25
AUGLAIZE COUNTY U.S.R. 25
STA. 430+76.08

Initial Submission Date 9-17-56			Final Approval Date
Revised		Approved	
9-24-56			

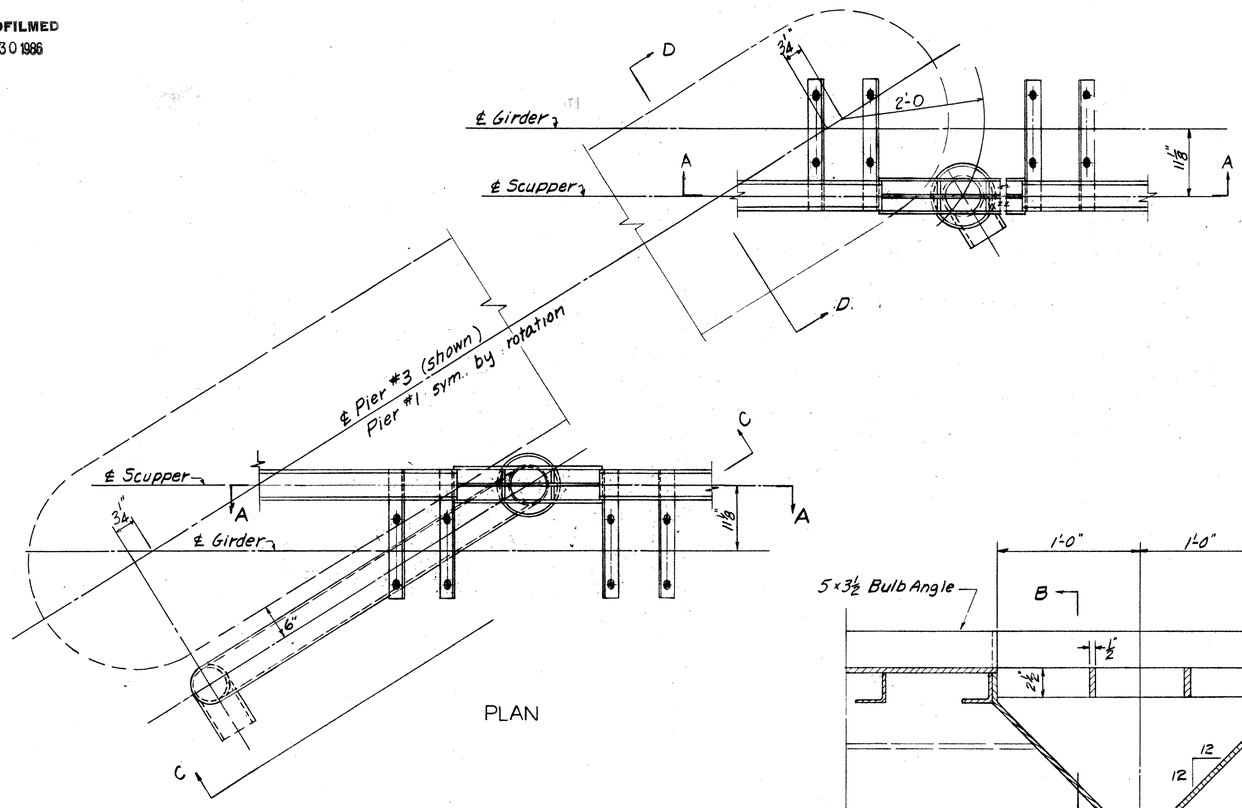
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
AWP	L.L.		NK	AWP		

MICROFILMED
DEC 30 1986

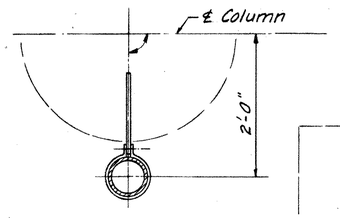
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	-	

A07
A66

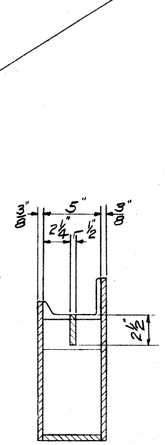
AUGLAIZE COUNTY
AUG 25-5.05



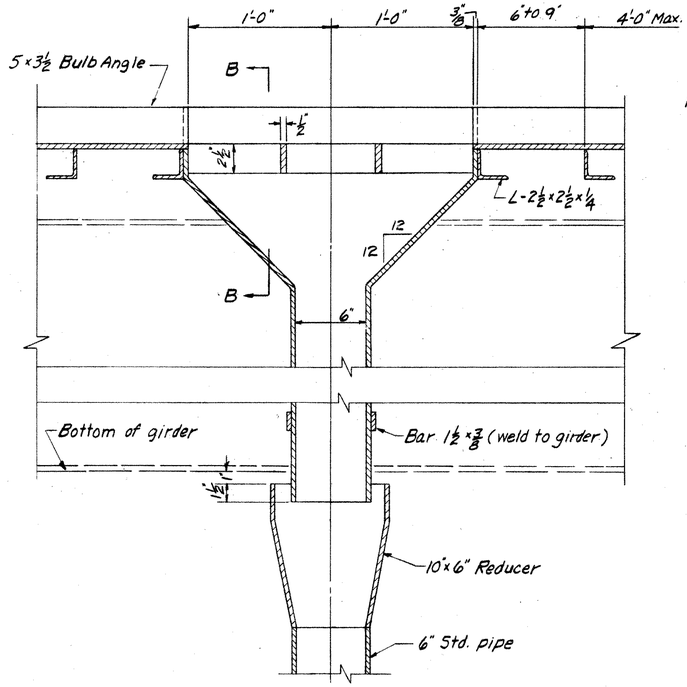
PLAN



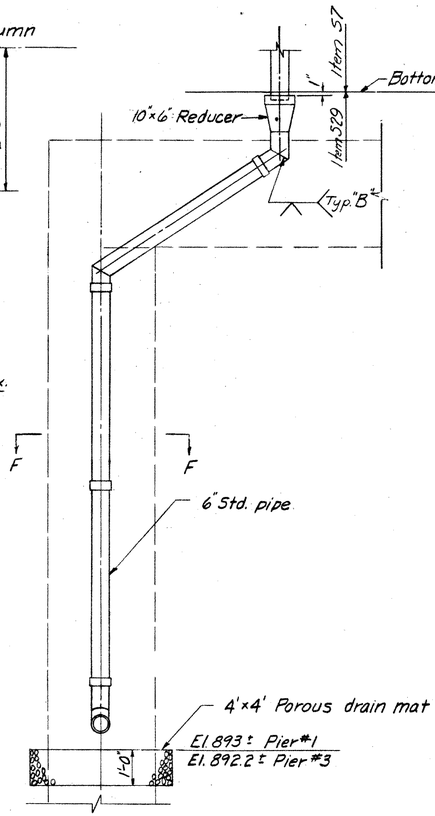
SECTION F-F



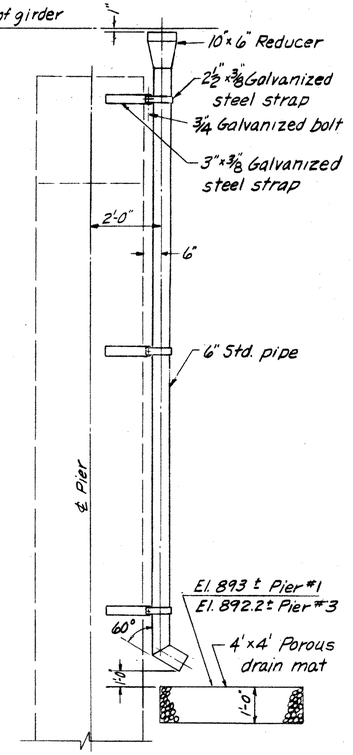
SECTION B-B



SECTION A-A



ELEV. C-C



ELEV. D-D

NOTE

For standard details of gutter and scuppers see sheet 376
Pipe shall be wrought iron

Initial Submission Date 9-17-56			Final Approval Date
Revised		Approved	
9-29-56			

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

SUPERSTRUCTURE DRAINAGE

BRIDGE No. 25-0721
SR 67 OVER US 25
AUGLAIZE COUNTY US 25
STA 430+76.08

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
DWP	RA		XXR	DWP		

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

408
466

AUGLAIZE CO.
AUG. 25- 5.05

REINFORCING STEEL LIST

Mark	No.	Length	Wt.	Shp.
Superstructure				
S601	593	31'-8"	28205	S
S602	960	37'-8"	54317	
S603	37	40'-0"	2223	
S604	74	27'-6"	3057	
S605	37	43'-0"	2390	
S606	617	22'-8"	21005	
S607	20	3'-5"	103	
S608	4	3'-9"	23	
S609	4	4'-2"	25	
S610	4	4'-6"	27	
S611	4	4'-11"	30	
S612	4	5'-3"	32	
S613	4	5'-8"	34	
S614	4	6'-0"	36	
S615	4	6'-5"	39	
S616	4	6'-9"	41	
S617	4	7'-2"	43	
S618	4	7'-6"	45	
S619	4	7'-11"	48	
S620	4	8'-3"	50	
S621	4	8'-8"	52	
S622	4	9'-0"	54	
S623	4	9'-5"	57	
S624	4	9'-9"	59	
S625	4	10'-2"	61	
S626	4	10'-6"	63	
S627	4	10'-11"	66	
S628	4	11'-3"	68	
S629	4	11'-8"	70	
S630	4	12'-0"	72	
S631	4	12'-5"	75	
S632	4	12'-9"	77	
S633	4	13'-2"	79	
S634	4	13'-6"	81	
S635	4	13'-11"	84	
S636	4	14'-3"	85	
S637	4	14'-8"	88	
S638	4	15'-0"	90	
S639	4	15'-5"	92	
S640	4	15'-9"	94	
S641	4	16'-2"	97	
S642	4	16'-6"	99	
S643	4	16'-11"	101	
S644	4	17'-3"	103	
S645	4	17'-8"	106	
S646	4	18'-0"	108	
S647	4	18'-5"	110	
S648	4	18'-9"	112	
S649	4	19'-2"	115	
S650	4	19'-6"	117	
S651	4	19'-11"	119	
S652	4	20'-3"	121	
S653	4	20'-8"	124	
S654	4	21'-0"	126	
S655	4	21'-5"	129	
S656	4	21'-9"	131	
S657	4	22'-2"	133	
S658	3	22'-6"	101	
S659	2	22'-11"	69	
S660	2	23'-3"	70	
S661	2	23'-8"	71	
S662	2	24'-0"	72	
S663	2	24'-5"	73	
S664	2	24'-9"	74	
S665	2	25'-2"	76	
S666	2	25'-6"	77	
S667	2	25'-11"	78	
S668	2	26'-3"	79	
S669	2	26'-8"	80	
S670	2	27'-0"	81	
S671	2	27'-5"	82	
S672	2	27'-9"	83	S
S673	2	28'-2"	85	S
S674	2	28'-6"	86	
S675	2	28'-11"	87	
S676	2	29'-3"	88	
S677	2	29'-8"	89	
S678	2	30'-0"	90	
S679	2	30'-5"	91	
S680	2	30'-9"	92	
S681	2	31'-2"	94	
S682	1	31'-6"	47	S
S683	32	6'-0"	288	S
S501	593	31'-8"	19586	S
S502	617	22'-8"	14587	S
S503	524	3'-6"	1913	B
S504	524	4'-10"	2642	B
S505	20	3'-5"	71	S
S506	4	3'-9"	16	
S507	4	4'-2"	17	
S508	4	4'-6"	19	
S509	4	4'-11"	21	
S510	4	5'-3"	22	
S511	4	5'-8"	24	
S512	4	6'-0"	25	
S513	4	6'-5"	27	
S514	4	6'-9"	28	
S515	4	7'-2"	30	
S516	4	7'-6"	31	
S517	4	7'-11"	33	
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S522	4	9'-9"	41	
S523	4	10'-2"	42	
S524	4	10'-6"	44	
S525	4	10'-11"	46	
S526	4	11'-3"	47	
S527	4	11'-8"	49	
S528	4	12'-0"	50	
S529	4	12'-5"	52	
S530	4	12'-9"	53	
S531	4	13'-2"	55	
S532	4	13'-6"	56	
S533	4	13'-11"	58	
S534	4	14'-3"	59	
S535	4	14'-8"	60	
S536	4	15'-0"	63	
S537	4	15'-5"	64	
S538	4	15'-9"	66	
S539	4	16'-2"	67	
S540	4	16'-6"	69	
S541	4	16'-11"	71	
S542	4	17'-3"	72	
S543	4	17'-8"	74	
S544	4	18'-0"	75	
S545	4	18'-5"	77	
S546	4	18'-9"	78	
S547	4	19'-2"	80	
S548	4	19'-6"	81	
S549	4	19'-11"	83	
S550	4	20'-3"	84	
S551	4	20'-8"	86	
S552	4	21'-0"	88	
S553	4	21'-5"	89	
S554	4	21'-9"	90	
S555	4	22'-2"	92	
S556	3	22'-6"	70	
S557	2	22'-11"	48	
S558	2	23'-3"	49	
S559	2	23'-8"	49	
S560	2	24'-0"	50	S
S561	2	24'-5"	51	S
S562	2	24'-9"	52	
S563	2	25'-2"	52	
S564	2	25'-6"	53	
S565	2	25'-11"	54	
S566	2	26'-3"	55	
S567	2	26'-8"	56	
S568	2	27'-0"	56	
S569	2	27'-5"	57	
S570	2	27'-9"	58	
S571	2	28'-2"	59	
S572	2	28'-6"	59	
S573	2	28'-11"	60	
S574	2	29'-3"	61	
S575	2	29'-8"	62	
S576	2	30'-0"	63	
S577	2	30'-5"	63	
S578	2	30'-9"	64	
S579	2	31'-2"	65	
S580	1	31'-6"	33	S
S401	736	4'-0"	1967	B
S402	48	37'-8"	1208	S
S403	1338	4'-3"	3799	B
Abutments				
A801	60	33'-6"	5366	S
A802	4	42'-0"	448	S
A803	16	21'-6"	930	S
A804	4	30'-0"	320	S
A805	2	12'-3"	64	B
A806	2	17'-0"	90	B
A601	123	18'-3"	3377	B
A602	32	20'-6"	986	B
A501	20	10'-0"	208	S
A502	25	37'-3"	973	S
A503	8	25'-3"	210	S
A504	2	20'-9"	43	S
A505	2	9'-9"	20	S
A506	2	16'-9"	35	S
A507	2	17'-9"	37	S
A508	12	10'-6"	131	S
A509	6	9'-0"	56	S
A510	155	12'-0"	1940	B
A511	34	8'-6"	301	B
A512	43	9'-0"	404	B
A513	78	10'-2"	827	B
A514	84	4'-6"	394	B
A515	4	17'-0"	70	B
A516	22	3'-3"	74	S
A517	4	12'-3"	56	B
A518	2	7'-3"	15	S
A519	2	23'-3"	48	S
A520	2	12'-0"	25	S
A521	6	11'-9"	74	S
A522	2	20'-3"	43	S
A523	2	9'-6"	19	S
A524	1	40'-0"	41	S
A525	12	9'-9"	122	S
A526	6	8'-9"	55	S
A527	6	10'-3"	64	S
A528	2	28'-3"	59	S
A401	128	7'-7"	648	B
Piers				
P1001	48	19'-0"	3924	S
P1002	24	18'-0	1859	S
P1003	168	6'-6"	4699	S
P1004	20	22'-11"	1972	B
P1005	60	14'-0"	3614	B
P1006	96	18'-9	7745	S
P607	24	7'-9	280	B
P608	6	40'-11	369	B
P901	96	10'-0"	326A	B
P902	24	10'-8"	870	B
P603	12	37'-11"	683	B
P601	12	40'-4"	727	B
P602	36	30'-9	1664	B
P603	150	6'-10"	1540	B
P604	96	8'-4"	1202	B
P606	24	29'-9	1073	B
P401	240	6'-5"	1029	B
P402	54	4'-6"	162	B
Railing				
R501	200	14'-7"	*	S
R502	532	4'-0"	*	B
R503	8	8'-2"	*	B
R504	16	5'-8"	*	S
R505	24	9'-0"	*	B
R506	16	12'-2"	*	S
Replacement Bars				
RE10	2	7'-2"	62	S
RE9	1	6'-10"	23	S
RE8	1	6'-6"	17	S
RE6	7	5'-11"	62	S
RE5	3	5'-7"	17	S
RE4	1	5'-3"	4	S
RESP4	1	5'-3"	4	B

Spiral Reinforcing List

Mark	No.	Core Dia. & Spiral	Height	Pitch	No. of Turns	Wt.
SP401	6	32"	16'-7"	4½"	47	1826
SP402	3	32"	15'-7"	4½"	45	872
SP403	12	32"	16'-3½"	4½"	46	3542

SPIRAL REINFORCING BARS:

The "Height" shown in the steel list for the spiral is the distance from the top of the footing to the bottom of the pier cap.

The "No of Turns" shown in the steel list for the spiral bars is the "Height" divided by the pitch, plus 3 turns (total number of closed coils), expressed as the nearest whole number.

Spiral reinforcing bars shall not have deformations but shall in other respects conform to Item 5-4.

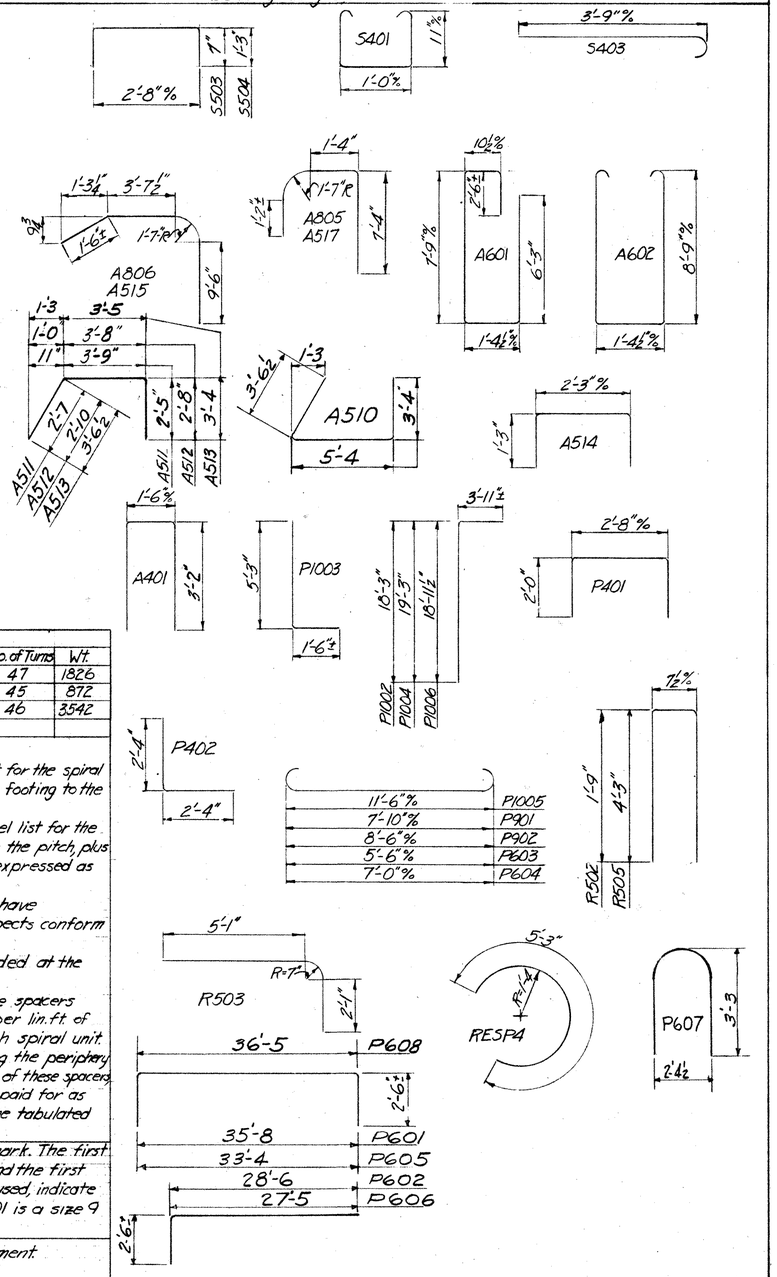
1½ closed coils shall be provided at the ends of each spiral unit.

Four steel channel, tee or angle spacers weighing approximately 0.68 lb. per lin.ft. of spacer, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of these spacers based on 0.68 lb. per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

BAR SIZE is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four digits are used, indicate the bar size number. For example, P901 is a size 9 bar and P1001 is a size 10 bar.

* Included with Item 5-14 for payment.

Bending Diagrams



INITIAL SUBMISSION DATE 9-17-56			FINAL APPROVAL DATE
REVISED		APPROVED	
4-29-58			

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

REINFORCING STEEL LIST
BRIDGE NO. AUG.25-0721
SR.67 OVER USR.25
AUGLAIZE COUNTY USR 25
STA. 430+76.08

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
DWP	FEE		MAK	D.W.P.		

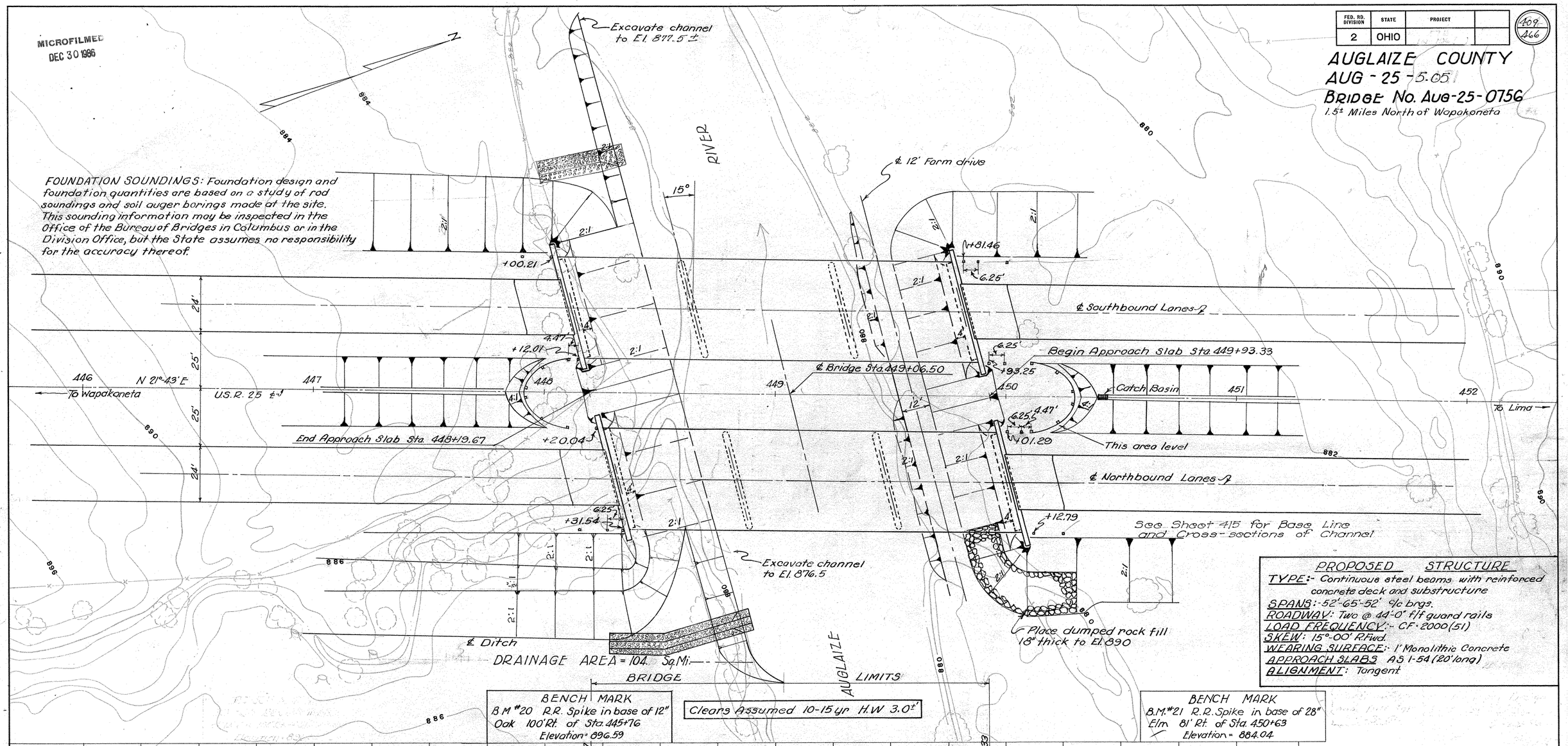
MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

169
466

AUGLAIZE COUNTY
AUG - 25 - 5.05
BRIDGE No. AUG-25-0756
1.5± Miles North of Wapakoneta

FOUNDATION SOUNDINGS: Foundation design and foundation quantities are based on a study of rod soundings and soil auger borings made at the site. This sounding information may be inspected in the Office of the Bureau of Bridges in Columbus or in the Division Office, but the State assumes no responsibility for the accuracy thereof.



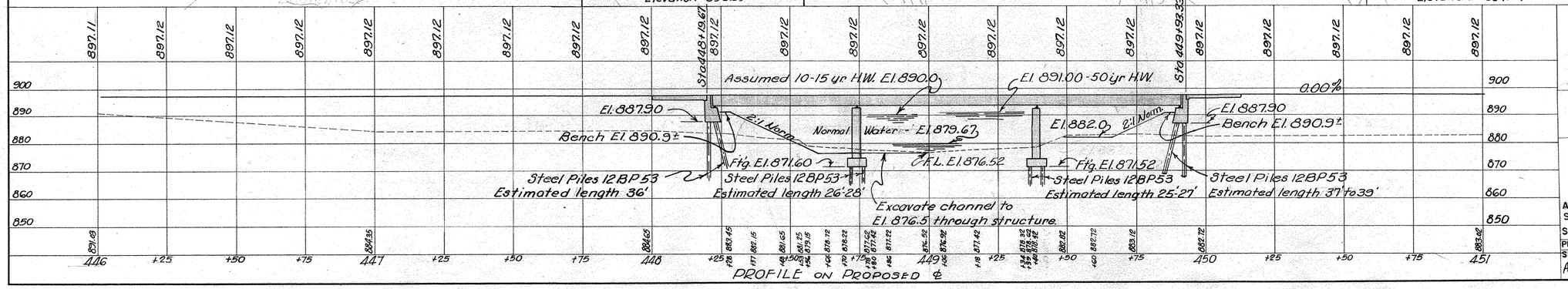
PROPOSED STRUCTURE

TYPE:- Continuous steel beams with reinforced concrete deck and substructure
SPANS:- 52'-65'-52' ℄ brgs.
ROADWAY: Two @ 44'-0" f/f guard rails
LOAD FREQUENCY:- CF-2000(51)
SKEW: 15°-00' R.fwd.
WEARING SURFACE:- 1" Monolithic Concrete
APPROACH SLABS AS 1-54 (20' long)
ALIGNMENT: Tangent

BENCH MARK
B.M. #20 R.R. Spike in base of 12" Oak 100' Rt. of Sta. 445+76
Elevation = 896.59

Clears Assumed 10-15 yr H.W. 3.0'

BENCH MARK
B.M. #21 R.R. Spike in base of 28" Elm 81' Rt. of Sta. 450+63
Elevation = 884.04



STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO. AUG-25-0756
U.S.R. 25 OVER AUGLAIZE RIVER
AUGLAIZE CO. SEC.
USR 25 STA. 449+06.50
SCALE 1"=20'

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

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

410
4616

AUGLAIZE COUNTY
AUG 25-5.05

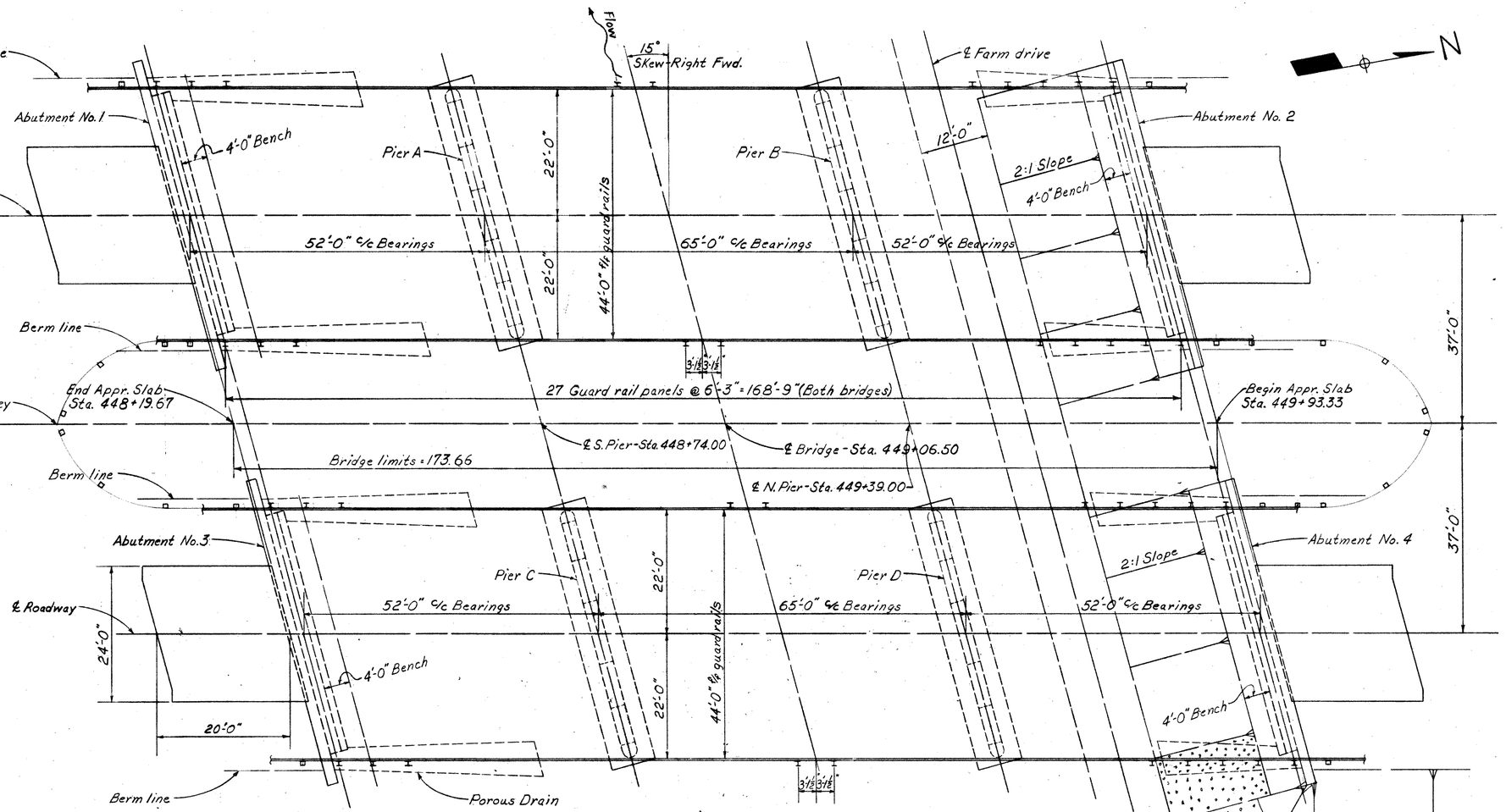
GENERAL NOTES

REFERENCE shall be made to Standard Drawing CSB-1-55, sheets 1, 2 & 8 revised 7-16-56.

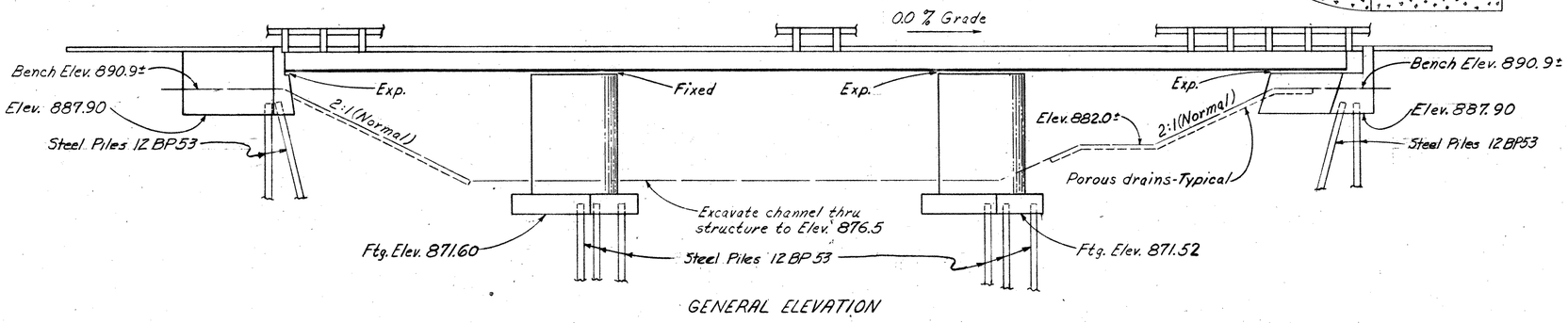
POROUS DRAINS, extending from face of abutment to Elevations shown shall be provided at all four corners of each bridge. The drains shall be 6 ft. wide at the low end, tapering to 4 ft. at the face of the abutment, and one foot thick.

PILES shall be driven to a minimum bearing capacity of 25 tons at the abutments and 37 tons at the piers. The length of penetration of every pile shall be at least 80% of the estimated average pay length of the piles in the pertinent pier or abutment as indicated on the plans unless a lesser penetration is approved by the Director.

For additional GENERAL NOTES see Sheet 3A



GENERAL PLAN



GENERAL ELEVATION

INITIAL SUBMISSION DATE 8-7-56				FINAL APPROVAL DATE
REVISED		APPROVED		
9-12-56				

VARO ENGINEERS
COLUMBUS and NEWARK OHIO

GENERAL PLAN, ELEVATION & NOTES
BRIDGE NO. AUG-25-0756
U.S.R. 25 OVER AUGLAIZE RIVER

AUGLAIZE COUNTY U.S.R. 25
STA. 449+06.50

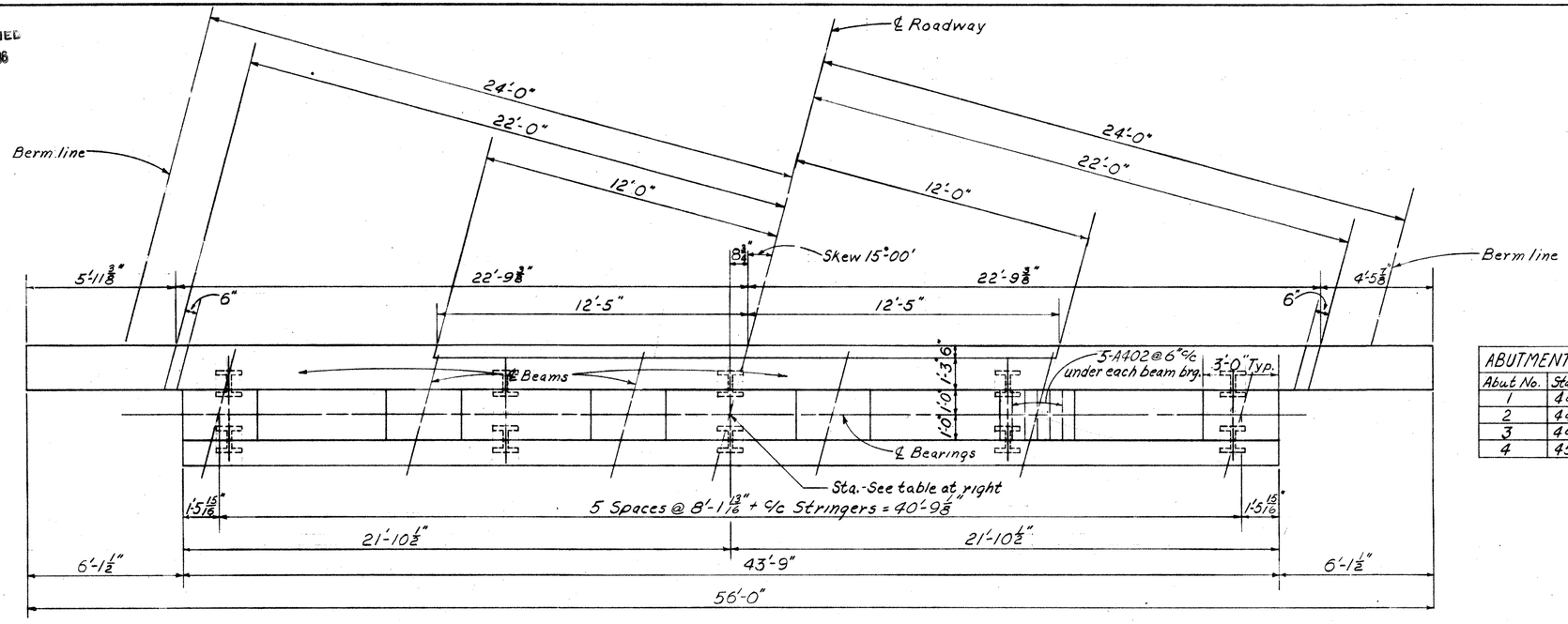
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H&R	J.E.S.		D.W.P.	H&R		

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	"	

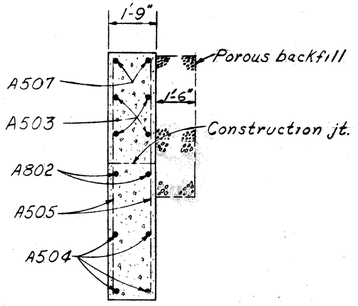
4-11
4-66

AUGLAIZE COUNTY
AUG-25-5.05

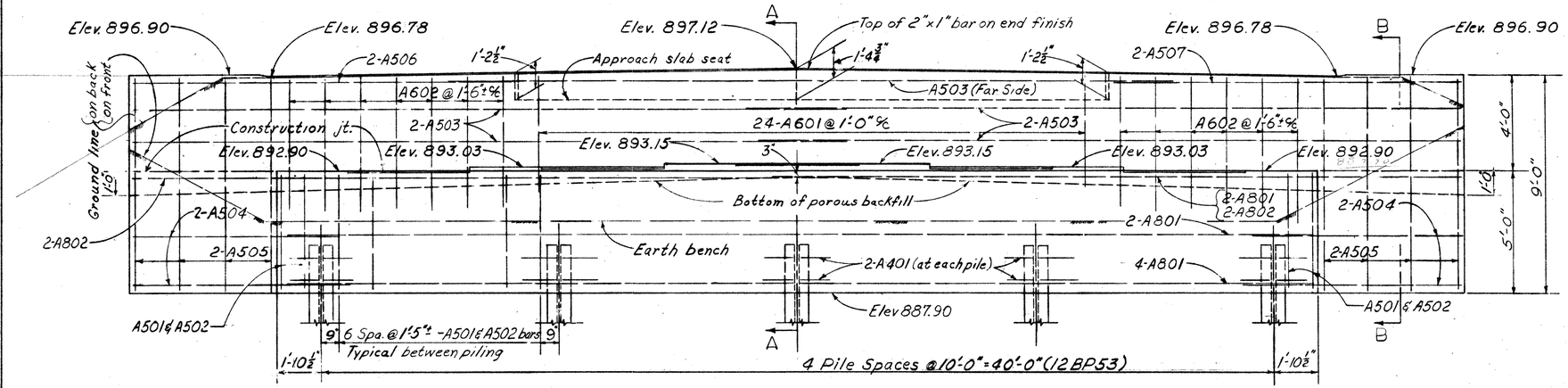


PLAN

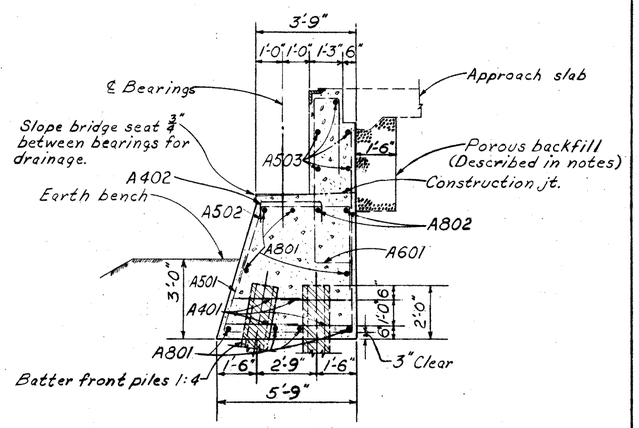
ABUTMENT LOCATIONS	
Abut. No.	Sta. @ ℄ Rdwy. & Brgs.
1	448+12.09
2	449+81.09
3	448+31.91
4	450+00.91



SECTION B-B



ELEVATION



SECTION A-A

NOTES:
POROUS BACKFILL shall extend upward to the approach slab and surface of the earth shoulders, and outward to the surface of the embankment slopes. Excavation therefor, in excess of that required for construction of the footing, shall be considered as paid for in the bid price per cu. yd. paid for porous backfill. REINFORCING STEEL shall be 2" clear from face of concrete unless otherwise shown.

INITIAL SUBMISSION DATE 8-7-56				FINAL APPROVAL DATE
REVISED		APPROVED		
9-12-56				

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

ABUTMENT DETAILS
BRIDGE NO. AUG-25-0756
U.S.R. 25 OVER AUGLAIZE RIVER

AUGLAIZE COUNTY — U.S.R. 25 STA. 449+06.50

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
HGR	J.E.S.		DWG	HGR		

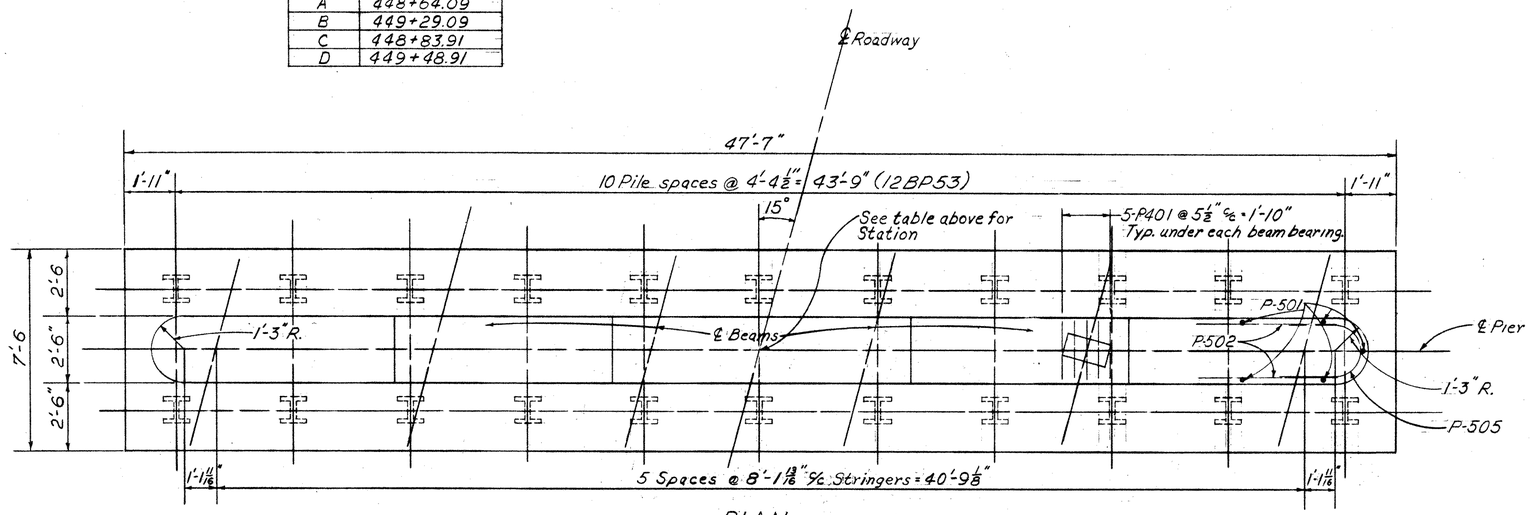
MICROFILMED
DEC 30 1986

PIER LOCATIONS	
PIER MK	Sta. @ ℄ Rdwy, ℄ Pier
A	448+64.09
B	449+29.09
C	448+83.91
D	449+48.91

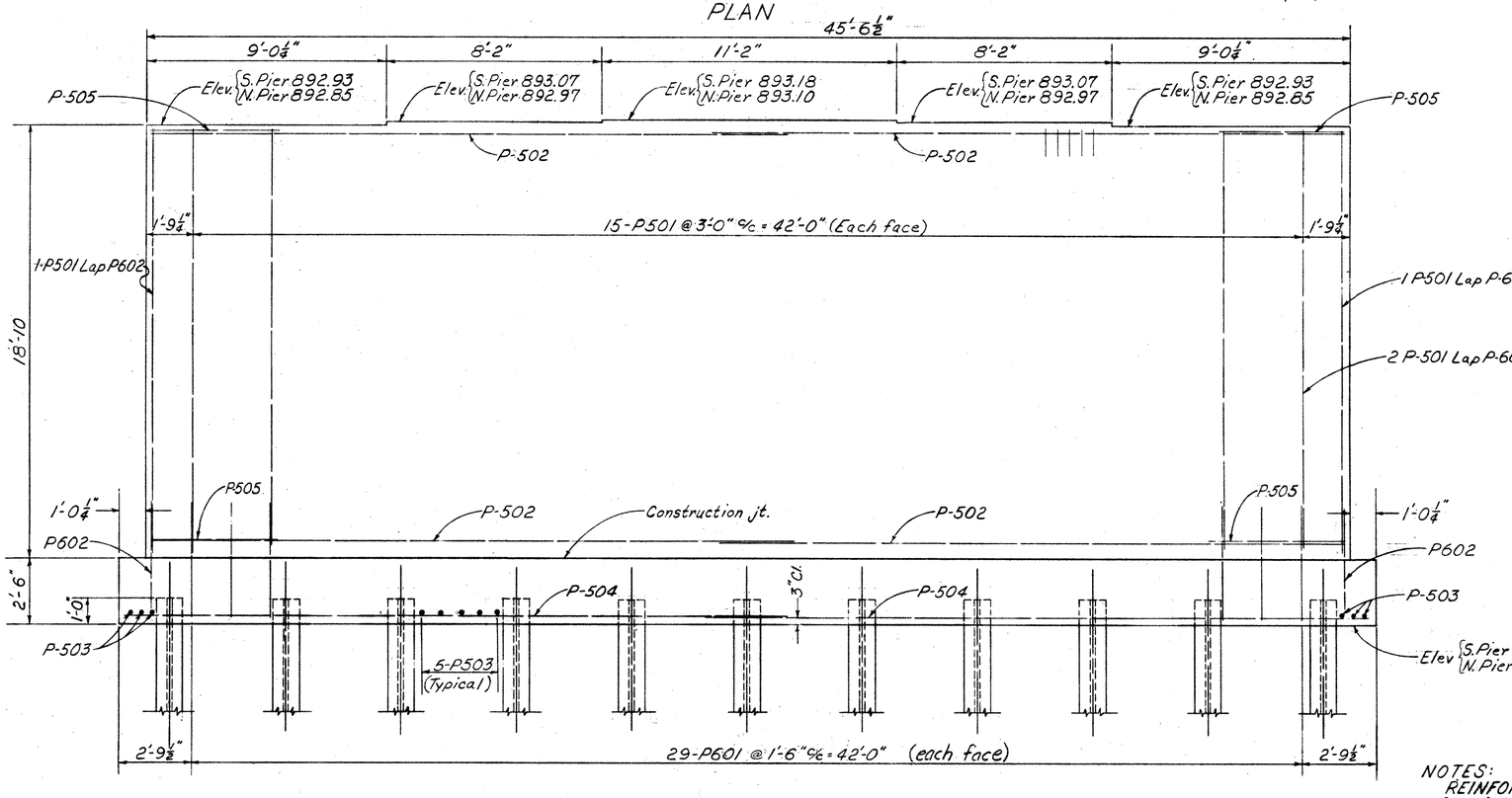
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

412
466

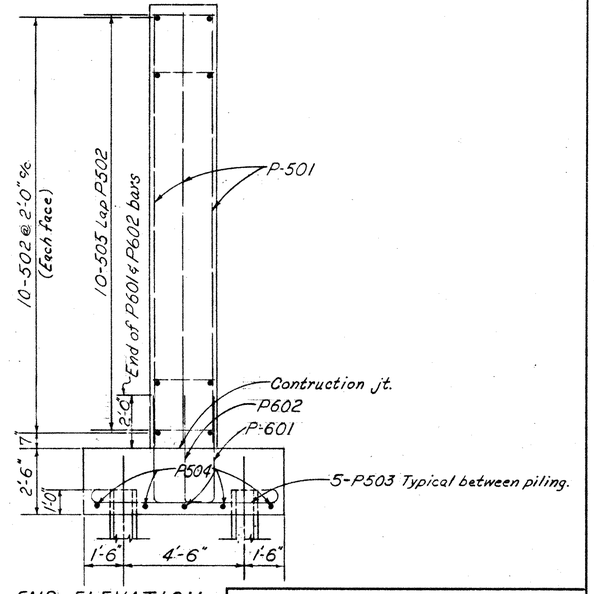
AUGLAIZE COUNTY
AUG-25-5.05



PLAN



ELEVATION



END ELEVATION

NOTES:
REINFORCING STEEL shall be 2" clear from face of concrete unless otherwise shown.

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

PIER DETAILS
BRIDGE NO. AUG. 25-07.56
U.S.R. 25 OVER AUGLAIZE RIVER

AUGLAIZE COUNTY U.S.R. 25
STA. 449+06.50

INITIAL SUBMISSION DATE 8-7-56			FINAL APPROVAL DATE
REVISED	APPROVED		
9-12-56			

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H&R	J.E.S.		A.W.P.	H&R		

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

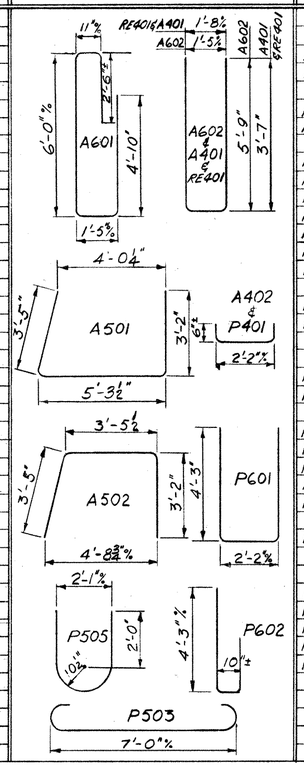
413 Auglaize

AUGLAIZE COUNTY
AUG.-25-5.05

REINFORCING STEEL LIST

MARK	NO	LENGTH	WEIGHT	SHP
SUPERSTRUCTURE				
S701	476	43'-8"	42485	S
S702	4	42'-0"	343	S
S703	4	39'-6"	323	S
S704	4	37'-0"	303	S
S705	4	34'-6"	282	S
S706	4	32'-0"	262	S
S707	4	29'-6"	241	S
S708	4	27'-0"	221	S
S709	4	24'-7"	201	S
S710	4	22'-1"	181	S
S711	4	19'-7"	160	S
S712	4	17'-1"	140	S
S713	4	14'-7"	119	S
S714	4	12'-1"	99	S
S715	4	9'-7"	78	S
S716	4	7'-2"	59	S
S717	4	4'-8"	38	S
S601	476	43'-8"	31220	S
S602	740	35'-6"	39458	S
S603	128	26'-0"	4998	S
S604	4	42'-0"	252	S
S605	4	39'-6"	237	S
S606	4	37'-0"	222	S
S607	4	34'-6"	207	S
S608	4	32'-0"	192	S
S609	4	29'-6"	177	S
S610	4	27'-0"	162	S
S611	4	24'-7"	148	S
S612	4	22'-1"	133	S
S613	4	19'-7"	118	S
S614	4	17'-1"	103	S
S615	4	14'-7"	88	S
S616	4	12'-1"	73	S
S617	4	9'-7"	58	S
S618	4	7'-2"	43	S
S619	4	4'-8"	28	S

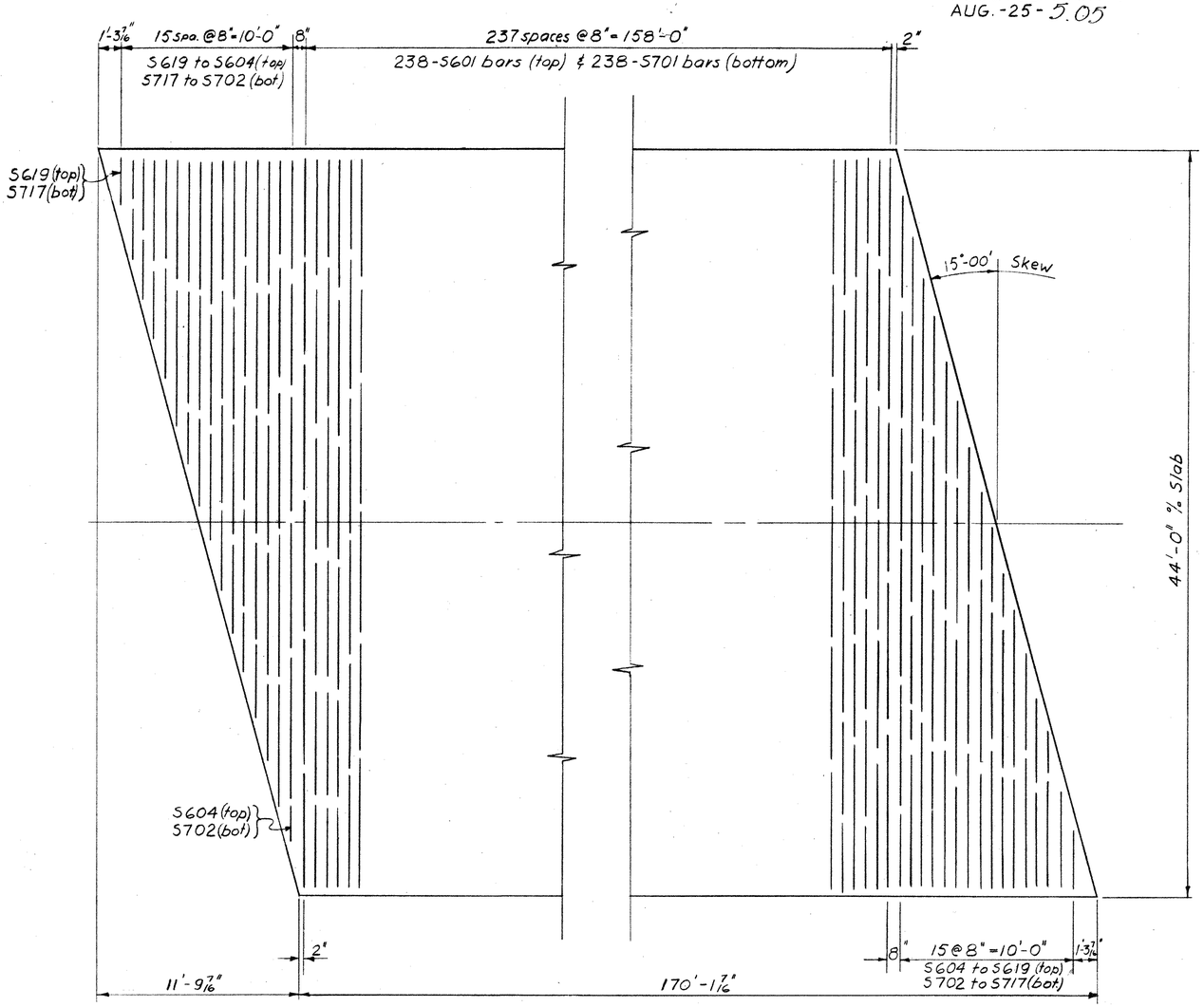
BENDING DIAGRAMS



MARK	NO	LENGTH	WEIGHT	SHP
ABUTMENTS				
A801	32	43'-3"	3695	S
A802	16	29'-0"	1239	S
A601	96	14'-11"	2162	Bt
A602	52	12'-7"	983	Bt
A501	128	11'-7"	1546	Bt
A502	128	9'-7"	1279	Bt
A503	36	29'-0"	1089	S
A504	32	6'-10"	229	S
A505	64	8'-7"	573	S
A506	8	15'-10"	131	S
A507	8	14'-2"	118	S
A401	80	8'-7"	632	Bt
A402	120	2'-11"	234	Bt
PIERS				
P601	116	10'-4"	1802	B
P602	8	4'-11"	59	B
P501	128	18'-6"	2470	S
P502	160	23'-4"	3894	S
P503	224	8'-2"	1908	B
P504	40	24'-4"	1012	S
P505	80	7'-3"	605	B
P401	120	3'-0"	240	B
REPLACEMENT STEEL				
REB	1	6'-6"	17	S
RE7	3	6'-2"	38	S
RE6	5	5'-11"	44	S
RE5	1	5'-7"	6	S
RE4	1	7'-7"	5	B

ESTIMATED QUANTITIES (For 2 Bridges)

Item	Total	Unit	Description	Abuts.	Piers	Superstr.	Gen'l.	As Built	
E 2	Lump sum	Lump sum	Cofferdams, cribs & sheeting				Lump sum		
E 2	566 (642)	cu. yds.	Unclassified excavation	148	418				
E 3	~~1644~~	cu. yds.	Channel excavation				~~1644~~	C-23,-1002 642	Bt
51	438	cu. yds.	Class "C" concrete, superstructure			438			
51	225	cu. yds.	Class "E" concrete, abutments	225					
51	313	cu. yds.	Class "E" concrete, pier walls		313				
51	13 (139.176)	cu. yds	Class "E" concrete, pier footings		131				
54	~~151,078~~	lbs.	Reinforcing steel	~~13806~~ 13910		~~123,452~~ 123,452	110	C-17,-1899 143,179	Bt
57	386000	lbs.	Structural steel			386000		C-19,-1305 C-28,-1556 389,548	Bt
58	~~386,000~~ 389,548	lbs.	Field painting of structural steel			386000		C-29,-1305 C-28,-1256 389,548	Bt
514	694.64	lin. ft.	Railing (Type I-15.13 with galvanized posts and bolts.)			694.64			
516	Lump sum	Lump sum	First test pile				Lump sum		
518	~~3810~~ 2995	lin. ft.	Steel Piles (12BP53)	~~1480~~	~~2330~~			C-18,-815 2995	Bt
529	46	cu. yds.	Porous backfill	46					
529	60	cu. yds.	Porous drains on embankment slopes				60		
I10	58	cu. yds.	Dumped rock fill				58		



TRANSVERSE SLAB REINFORCING
(Both Bridges Identical)

INTIAL SUBMISSION DATE 8-7-56		FINAL APPROVAL DATE
REVISED	APPROVED	
9-12-56		

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

SUPERSTRUCTURE DETAILS, EST. QUANTITIES & STEEL LIST

BRIDGE No AUG. 25-0756
U.S.R. 25 OVER AUGLAIZE RIVER
AUGLAIZE COUNTY U.S.R. 25
STA. 449+06.50

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
G.L.	G.L.		DWP	HWK		

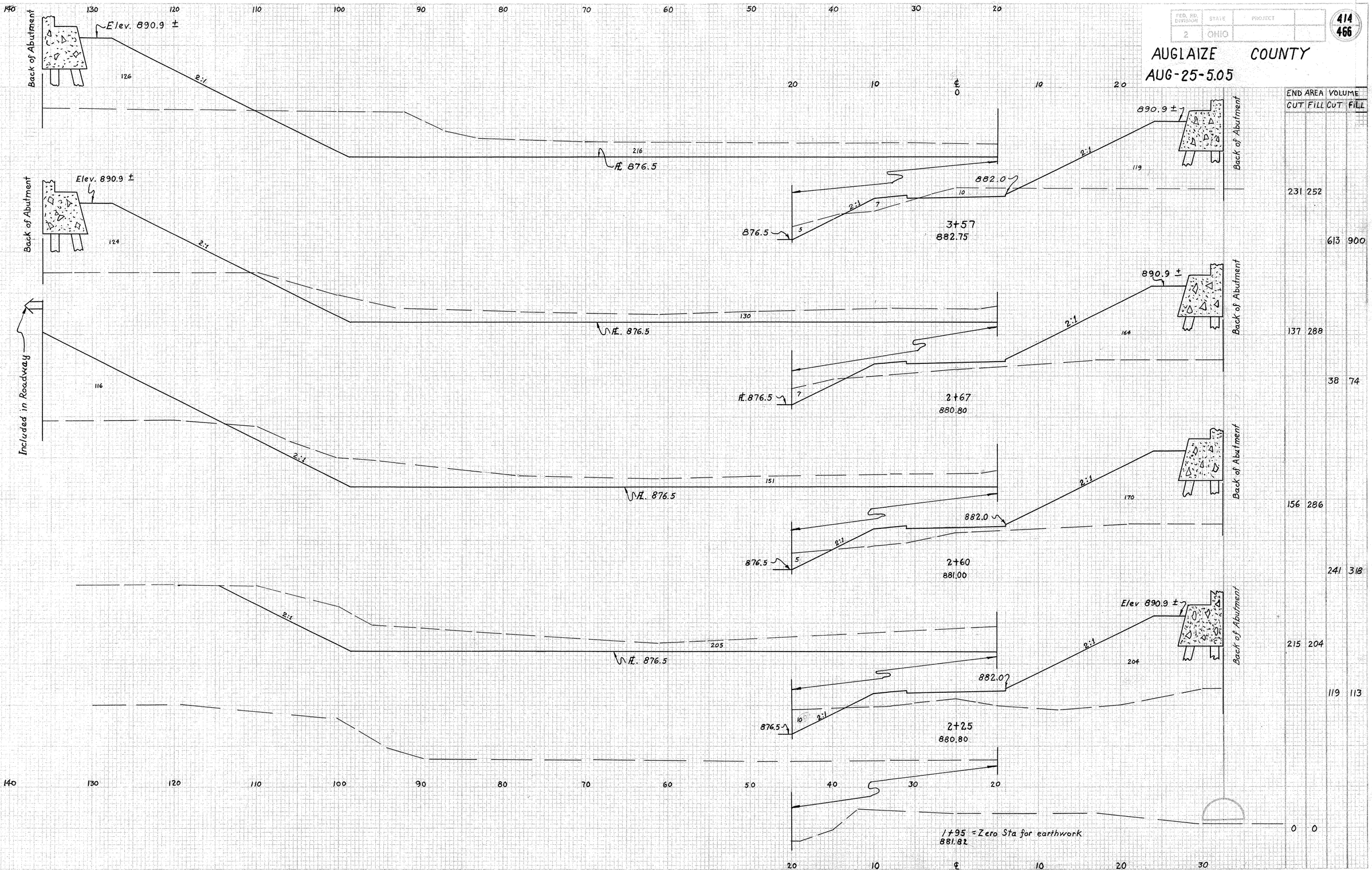
Bt Revised As-Built H.E.B. 2-20-59

MICROFILMED
DEC 30 1986

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

414
466

AUGLAIZE COUNTY
AUG-25-5.05



END AREA		VOLUME	
CUT	FILL	CUT	FILL
231	252		
		613	900
137	288		
		38	74
156	286		
		241	318
215	204		
		119	113
0	0		

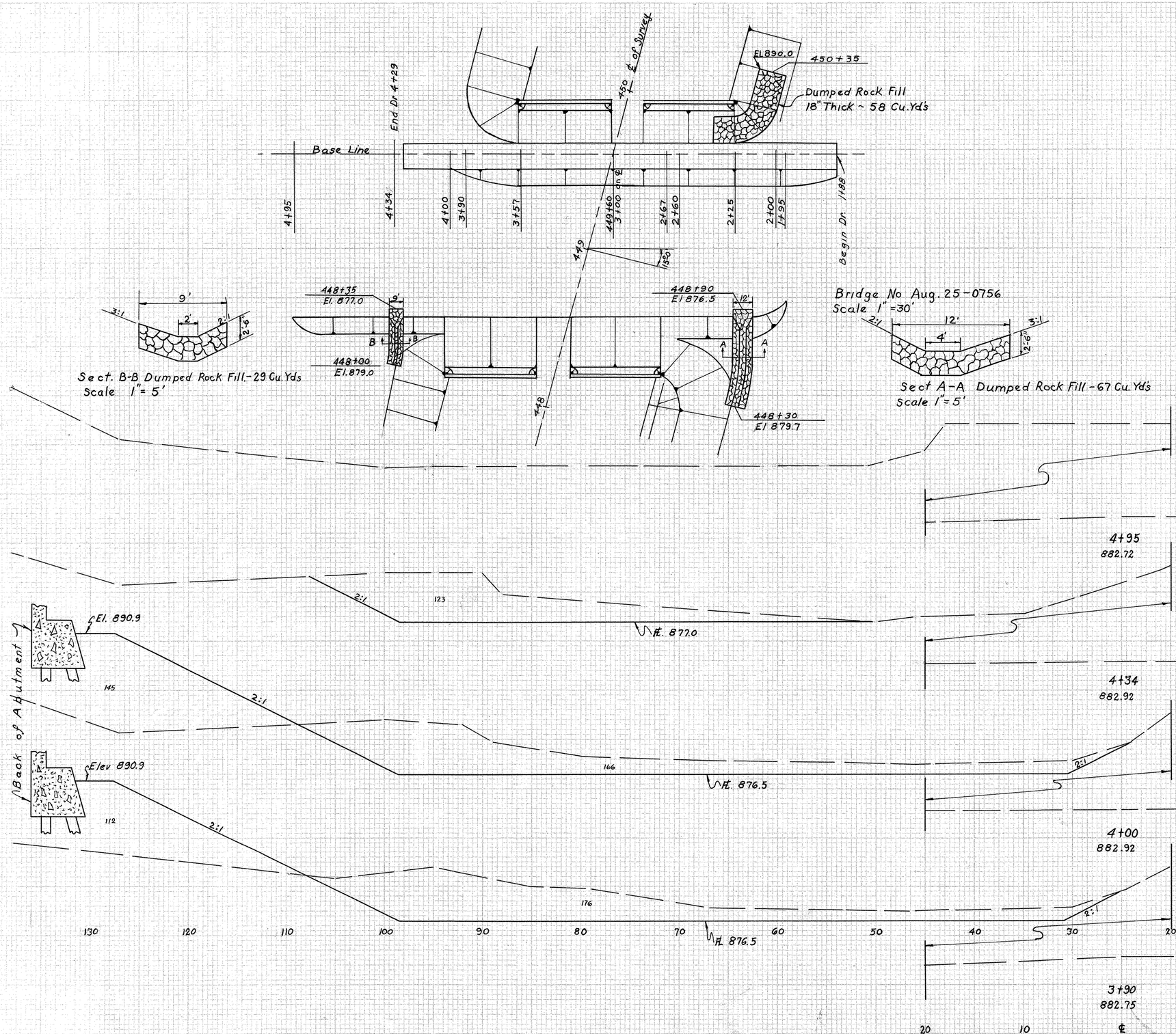
CHANNEL SECTIONS STA 1+95 TO 3+57 ON AUGLAIZE RIVER

MICROFILMED
DEC 30 1986

FED. HWY. DIVISION	STATE	PROJECT	
2	OHIO		

415
466

AUGLAIZE COUNTY
AUG-25-5.05



END AREA		VOLUME	
CUT	FILL	CUT	FILL
		139	0
		123	0
		182	92
		166	145
		63	48
		176	112
		249	222
		231	252

Excavation 1644 Cu Yd
Embankment 1767 Cu Yd
Embankment +15% 2032 Cu Yd

CHANNEL SECTIONS STA 3+90 TO STA 4+95 ON AUGLAIZE RIVER

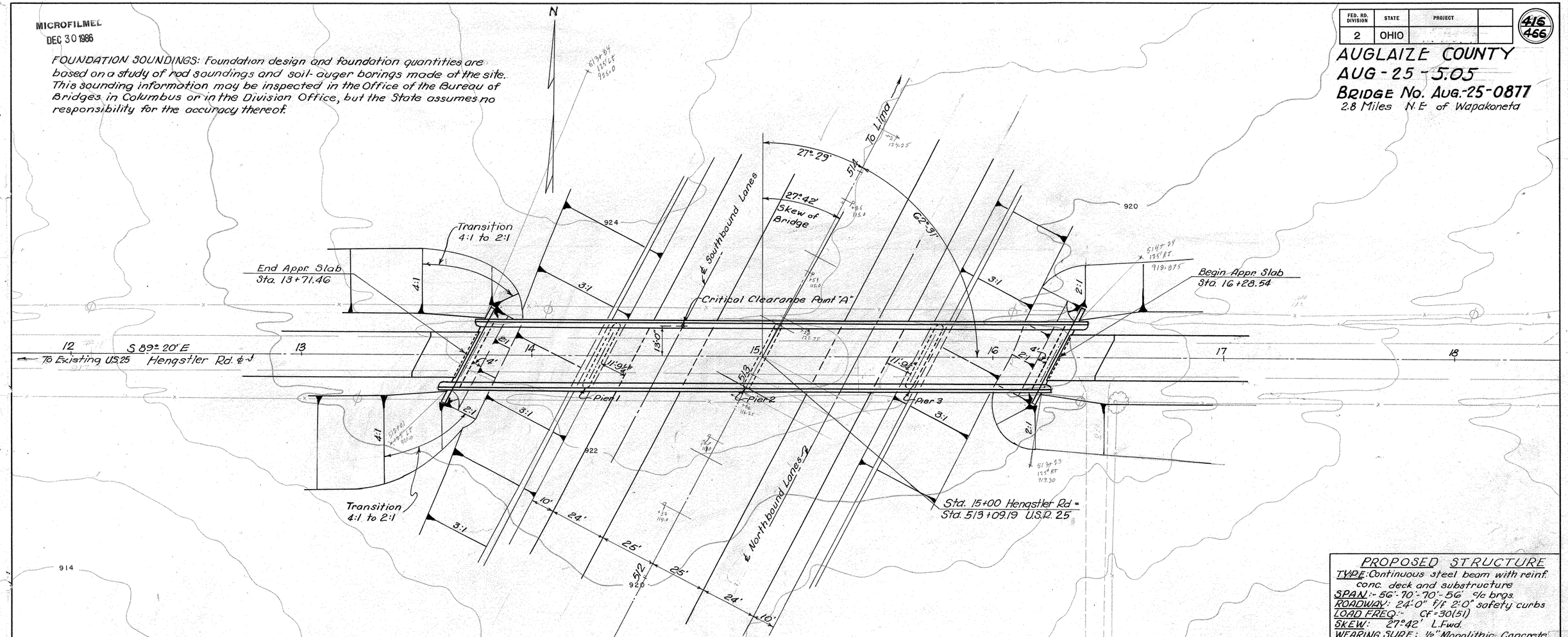
MICROFILMED
DEC 30 1986

FOUNDATION SOUNDINGS: Foundation design and foundation quantities are based on a study of rod soundings and soil-auger borings made at the site. This sounding information may be inspected in the Office of the Bureau of Bridges in Columbus or in the Division Office, but the State assumes no responsibility for the accuracy thereof.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

416
466

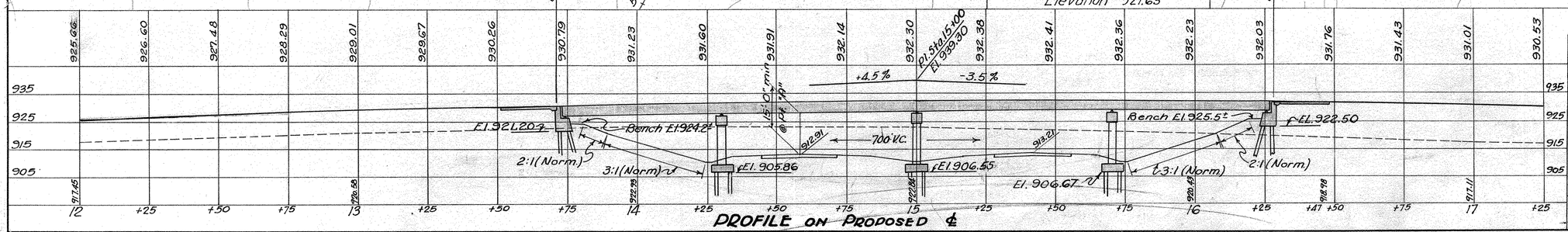
AUGLAIZE COUNTY
AUG-25-5.05
BRIDGE No. AUG.-25-0877
2.8 Miles N.E. of Wapakoneta



12"Cast-in-place reinforced concrete piling
Est. Avg. pay length:
20' at Abutments
22' at Piers

BRIDGE LIMITS
Sta 13+71.46
Sta 16+28.54

BENCH MARK
B.M #31 R.R. Spike in ℄ 148' Lt. of Sta. 512+22 (U.S.R. 25)
Elevation 921.63



PROFILE ON PROPOSED ℄

PROPOSED STRUCTURE
TYPE: Continuous steel beam with reinf. conc. deck and substructure
SPAN: - 56'-70'-70'-56' c/c brgs.
ROADWAY: 24'-0" f/f 2'-0" safety curbs
LOAD FREQ.: - CF=30(51)
SKEW: 27°-42' L.Fwd.
WEARING SURF.: ½" Monolithic Concrete
APPR. SLAB: AS-1-54 (20' long)
ALIGNMENT: - Tangent

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO. AUG 25-0877
HENGSTLER ROAD OVER U.S.R. 25
AUGLAIZE CO. U.S.R. 25
SEC. STA. 513+09.19
SCALE 1"= 20'

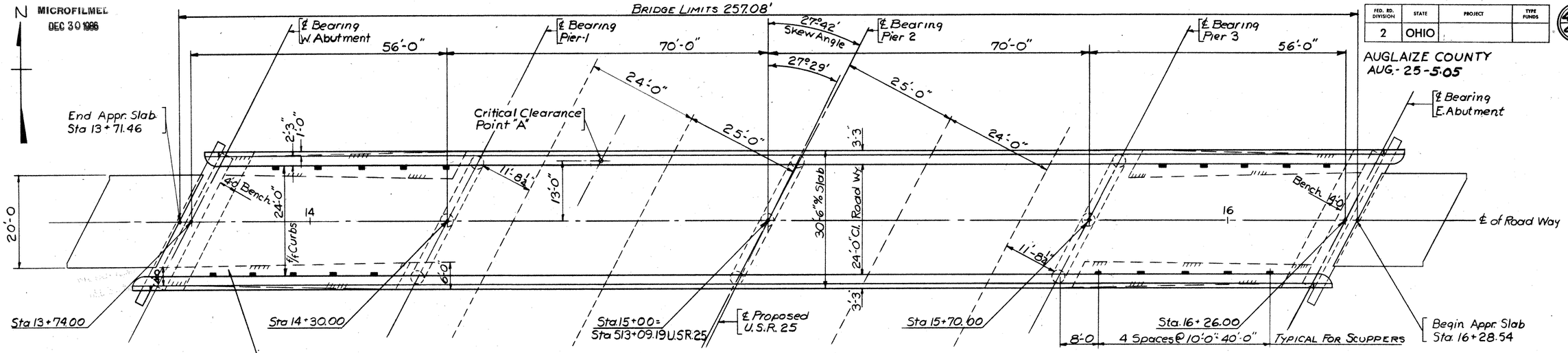
PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
April Survey	Aerial Survey	D.H.S.	D.H.S.	J.H.B.	P.E.S.

MICROFILMED
DEC 30 1999

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

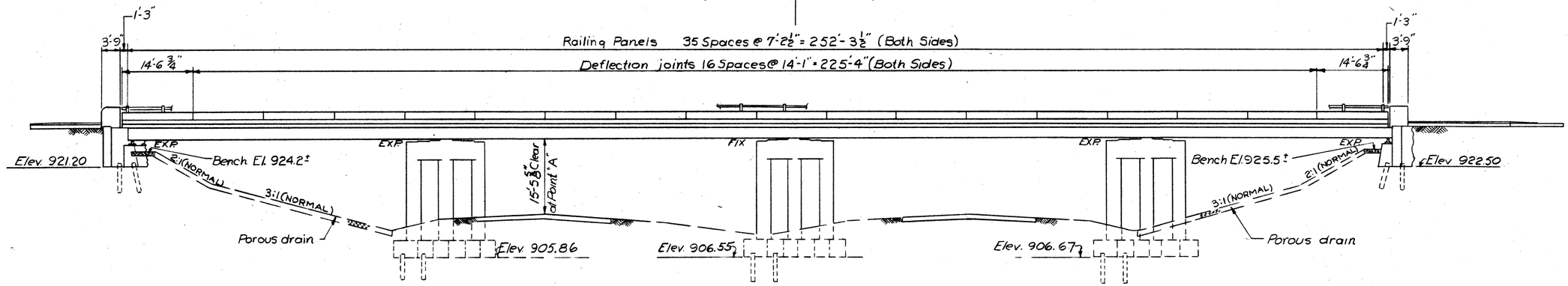
417/466

AUGLAIZE COUNTY
AUG.-25-5.05



GENERAL PLAN

PI Sta. 15+00.00 ℄ Elev. 939.30'
+4.5% -3.5%
700 V.C.



GENERAL ELEVATION

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Super	Abuts	Piers	Gen'l	As Built	
E-2	Lump	sum	Cofferdams, cribs and sheeting				Lump		
E-2	204	Cu.Yd.	Unclassified excavation		71	133			
S-1	225	Cu.Yd.	Class "C" Concrete, Superstructure	225					
S-1	100	Cu.Yd.	Class "E" Concrete, Abutments		100				
S-1	59	Cu.Yd.	Class "C" Concrete, Pier Caps & Columns			59			
S-1	50	Cu.Yd.	Class "E" Concrete, Pier Footings			50			
S-4	~~74110~~ 73,719	Lbs.	Reinforcing Steel	55482	4499	14010	719	C-18, -138 C-17, -525	73,719
S-7	~~178800~~ 180,749	Lbs.	Structural Steel	178800				C-19, '1949	180,749
S-8	~~178800~~ 180,749	Lbs.	Field Painting of Structural Steel	178800				C-19, '1949	180,749
S-14	523.50	Ln.ft.	Railing (Aluminum with concrete parapet and concrete end posts)	523.50					
S-16	Lump	Sum	First Test Pile				Lump		
S-18	1324 1181	Ln.ft.	12" Cast-in-place Reinforced Concrete Piling		400	924		C-18, -143	1181
S-29	28	Cu.Yd.	Porous Backfill		28				
S-29	46	Cu.Yd.	Porous Drains				46		

GENERAL NOTES

SURFACE FINISH OF CONCRETE: Railing end posts, curb faces, fascias of the deck and exposed surfaces of piers, abutments and wing walls, shall receive a rubbed surface finish. All other exposed surfaces shall be governed by the provisions of item S-1

POROUS DRAINS, extending from face of abutment to Elev. 910.6±, shall be provided at all four corners of the bridge. The drains shall be 6 feet wide at low end, tapering to 4 ft. wide at the face of the abutment, and one foot thick.

PILES shall be driven to a minimum bearing capacity of 25 tons for the abutments and 30 tons for the piers. The length of penetration of every pile shall be at least 80% of the estimated average pay length of the piles in the pertinent pier or abutment as indicated on the plans unless a lesser penetration is approved by the Director.

Initial Submission Date 8-7-56			Final Approval Date
Revised	Revised	Approved	
9-12-56			

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

GENERAL PLAN & ELEVATION & ESTIMATED QUANTITIES

BRIDGE No AUG 25 - 0877
HENGSTLER RD. OVER USR 25
AUGLAIZE COUNTY USR 25
STA. 513+09.19

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
D.W.P.	G.E.	9/10/56	R.W.M.	D.W.P. H.S.R.		

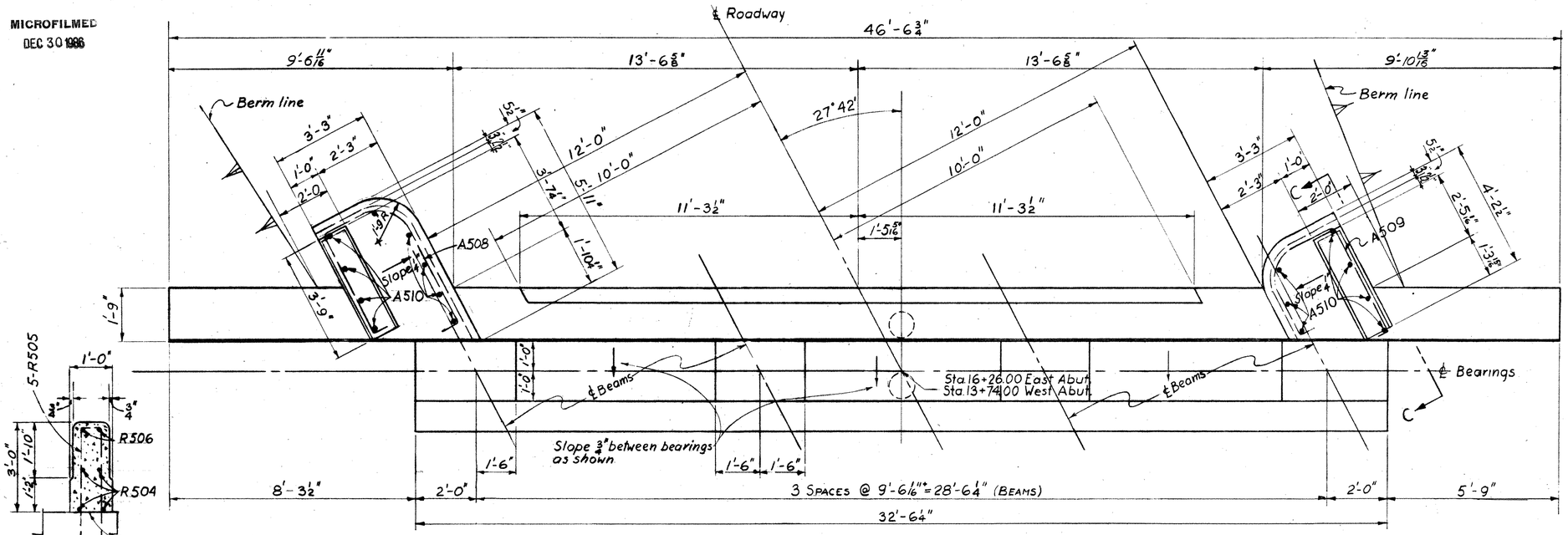
Revised As-Built H.E.R. 7-20-59

MICROFILMED
DEC 30 1986

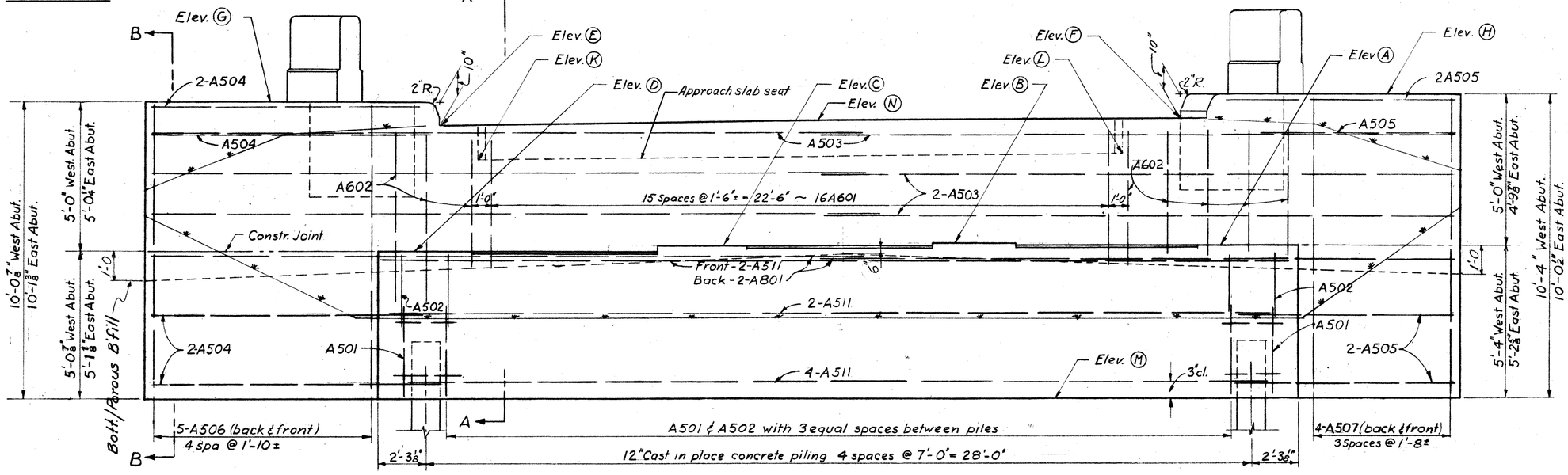
FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

418
466

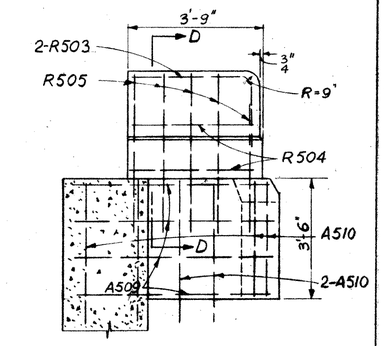
AUGLAIZE COUNTY
AUG. 25-5.05



ABUTMENT PLAN



ELEVATION



SECTION C-C

Table of beam seat elevations

Top of concrete at ℄ of bearings				
LOCATION / BEAM	A	B	C	D
West Abut.	926.53	926.57	926.49	926.27
East Abut.	927.72	927.81	927.77	927.59

Table of other abutment elevations

ELEV. / LOCATION	E	F	G	H	K	L	M	N
West Abut.	930.42	930.67	931.27	931.52	929.23	929.34	921.20	930.73
East Abut.	931.75	931.69	932.61	932.54	930.57	930.50	922.50	932.01

NOTES

POROUS BACKFILL shall extend up to the underside of the approach slab, and surface of earth shoulders, and outward to the surface of embankment slopes.

CLEARANCE from face of concrete to reinforcing steel shall be 2" unless otherwise shown.

CONCRETE shall be Class "E" and payment will be made on this basis, but Class "C" concrete may be used for any or all parts of the abutment.

INITIAL SUBMISSION DATE 8-7-56		FINAL APPROVAL DATE
REVISED	APPROVED	
9-12-56		

VARO ENGINEERS
COLUMBUS AND NEWARK, OHIO

ABUTMENT DETAILS
BRIDGE No. AUG-25-0877
HENGSTLER RD. OVER U.S.R. 25
AUGLAIZE COUNTY U.S.R. 25
STA. 513+09.19

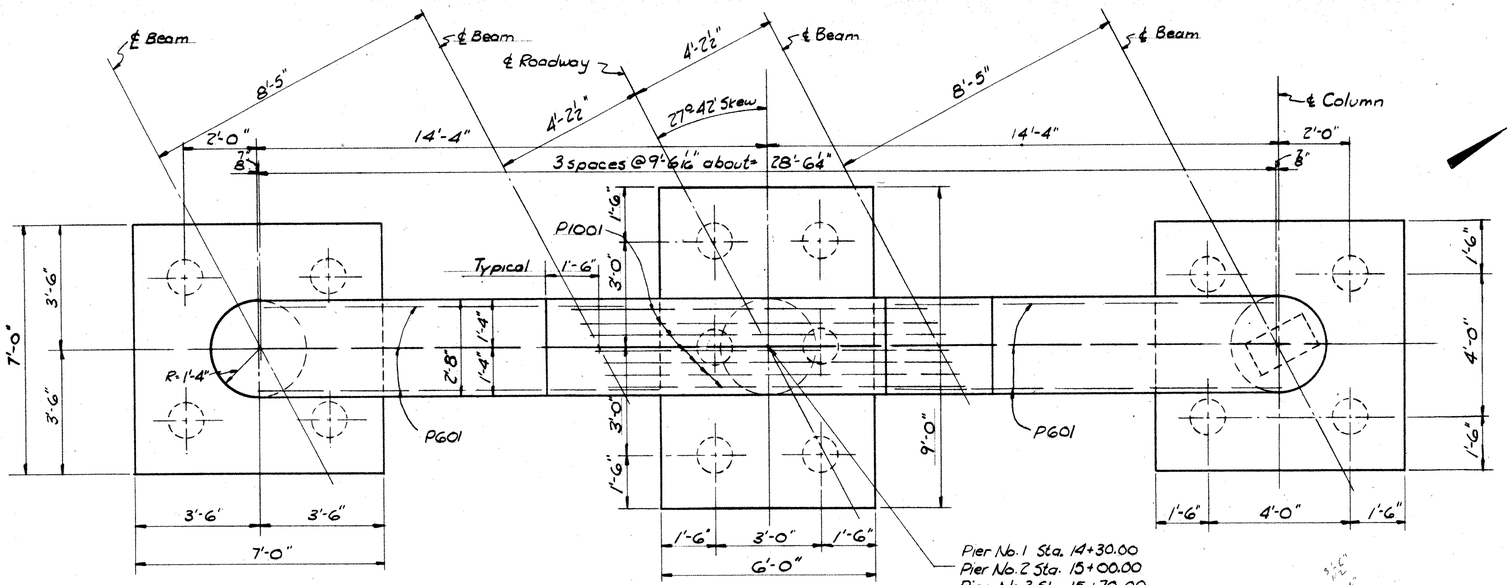
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.S.R.	J.L.		R.W.M.	R.W.P.		

MICROFILMED
DEC 30 1986

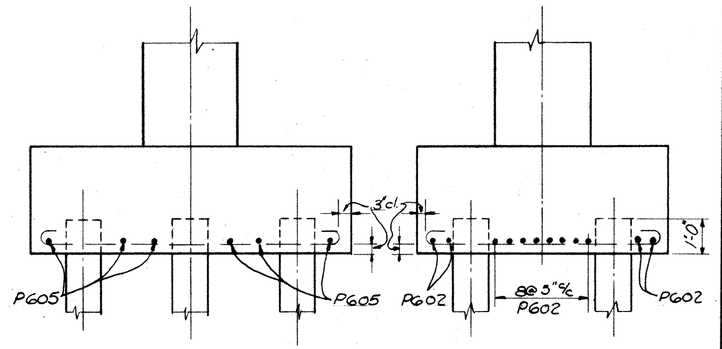
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

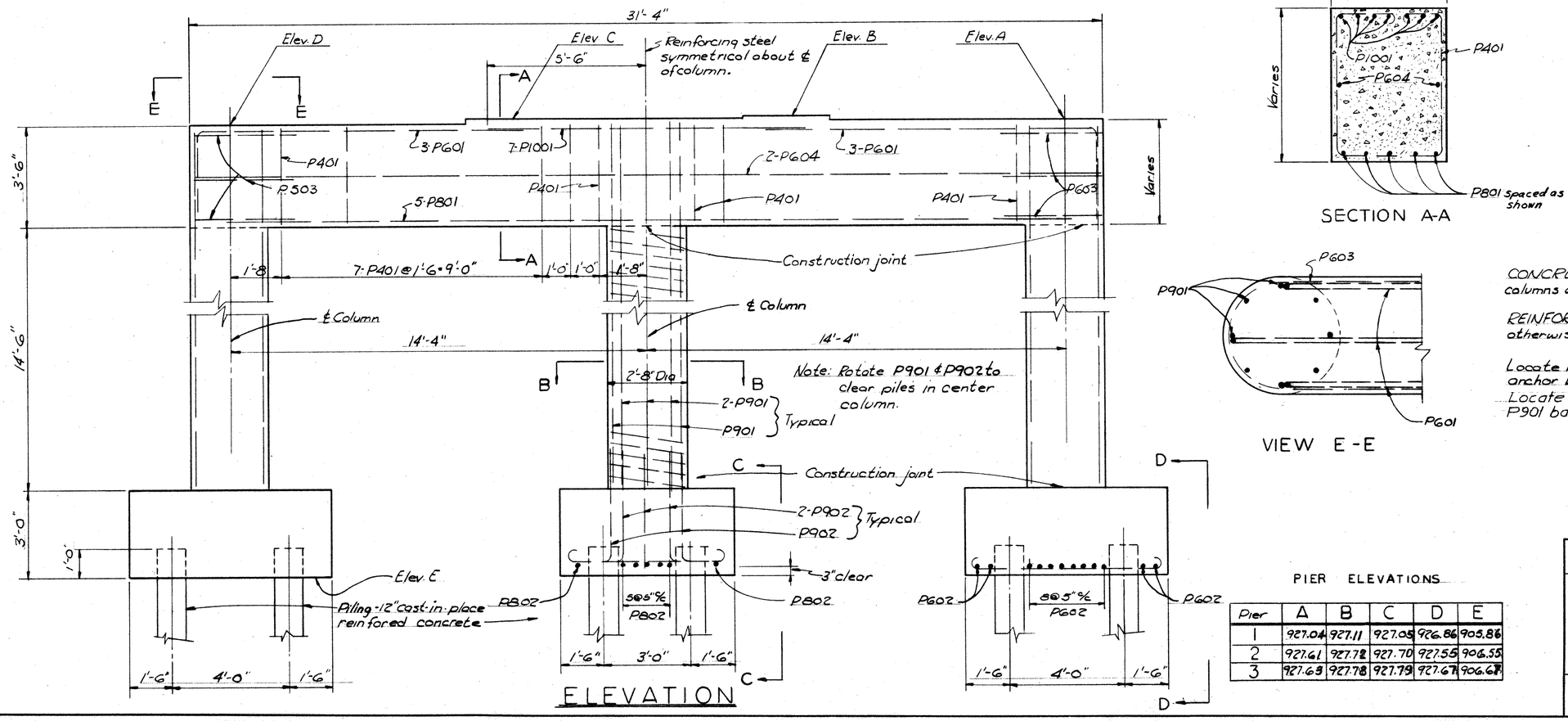
419
466

AUGLAIZE COUNTY
AUG. 25 5.05



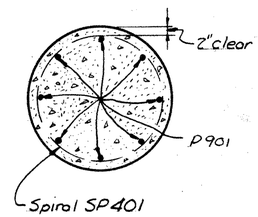
PLAN





ELEVATION

SECTION A-A



SECTION B-B

VIEW E-E

CONCRETE shall be class "C" for caps and columns and Class "E" for footings.

REINFORCING STEEL shall be 2" clear unless otherwise shown.

Locate reinforcing in pier cap to clear anchor bolts (Pier # 2 only.)
Locate P601 bars in periphry of P901 bars and wire together

PIER ELEVATIONS

Pier	A	B	C	D	E
1	927.04	927.11	927.05	926.86	905.86
2	927.61	927.78	927.70	927.55	906.55
3	927.63	927.78	927.79	927.67	906.67

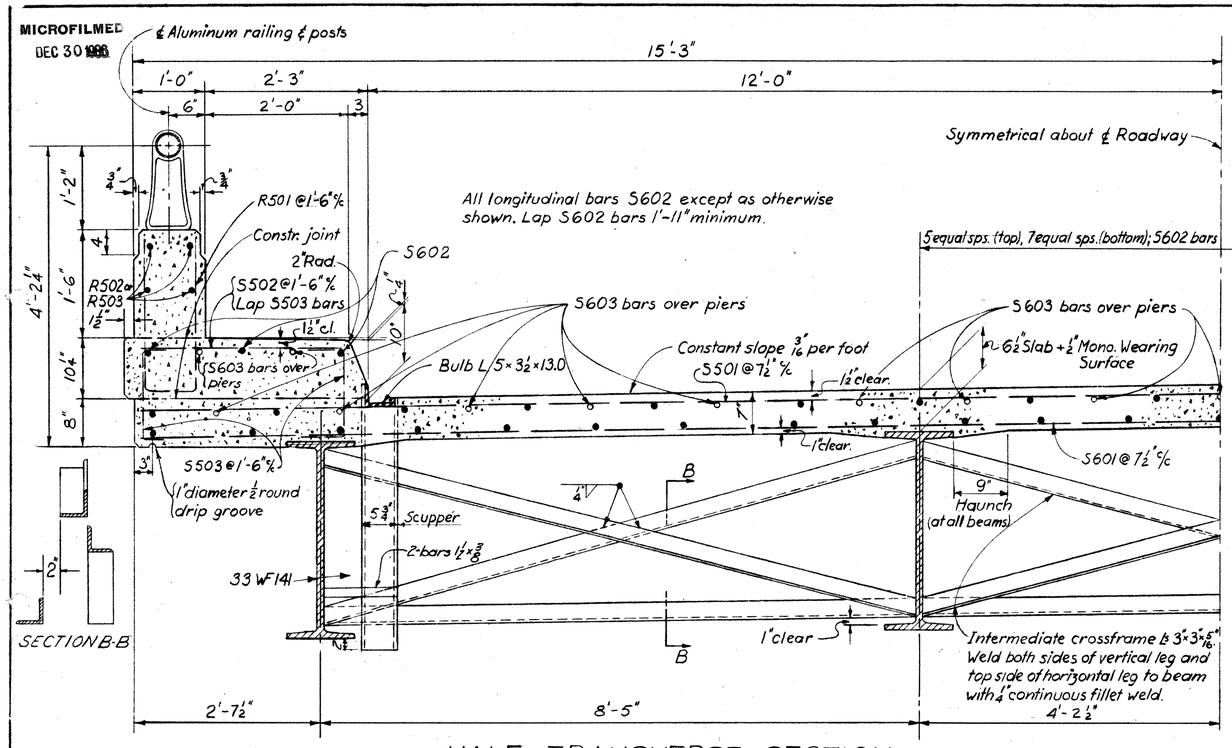
INITIAL SUBMISSION DATE 8-7-56		FINAL APPROVAL DATE
REVISED	APPROVED	
9-12-56		
10-8-56		

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

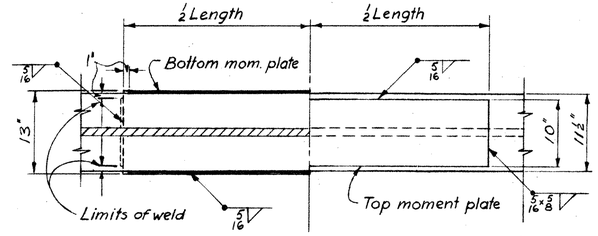
PIER DETAILS
BRIDGE No. AUG-25-0877
HENGSTLER RD OVER US.R.25
AUGLAIZE COUNTY US.R. 25
STA. 513+09.19

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.S.R.	G.E.	JRK	R.W.M.	D.W.P.		

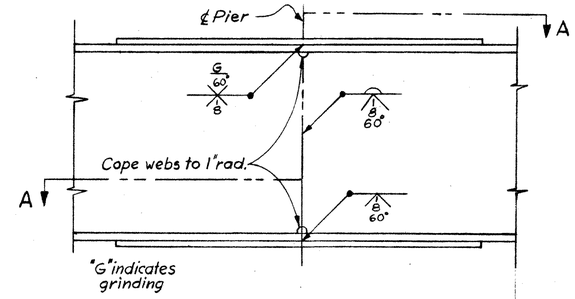
MICROFILMED
DEC 30 1996



HALF TRANSVERSE SECTION



SECTION A - A



BEAM SPLICE DETAILS
WITH MOMENT PLATES

PIER	MOMENT PLATE SIZE	
	TOP PLATE	BOTTOM PLATE
Rear & Forward	10" × ½" × 12'-0"	13" × 2" × 12'-0"
Center	10" × ½" × 13'-6"	13" × 2" × 13'-6"

BEAM SPLICE WELDING PROCEDURE

1. Raise end of beam at second pier 1⅞".
2. Butt-weld the beam flanges and web at Pier 1 using the following sequence: make one pass on each flange, then one on the web; repeat until welds are completed.
3. Weld top and bottom flange moment plates at first pier.
4. Lower end of beam at second pier.
5. Make splice at second and third piers in the same manner raising the end of the beams 1⅞" at the third pier and 1" at the forward abutment.

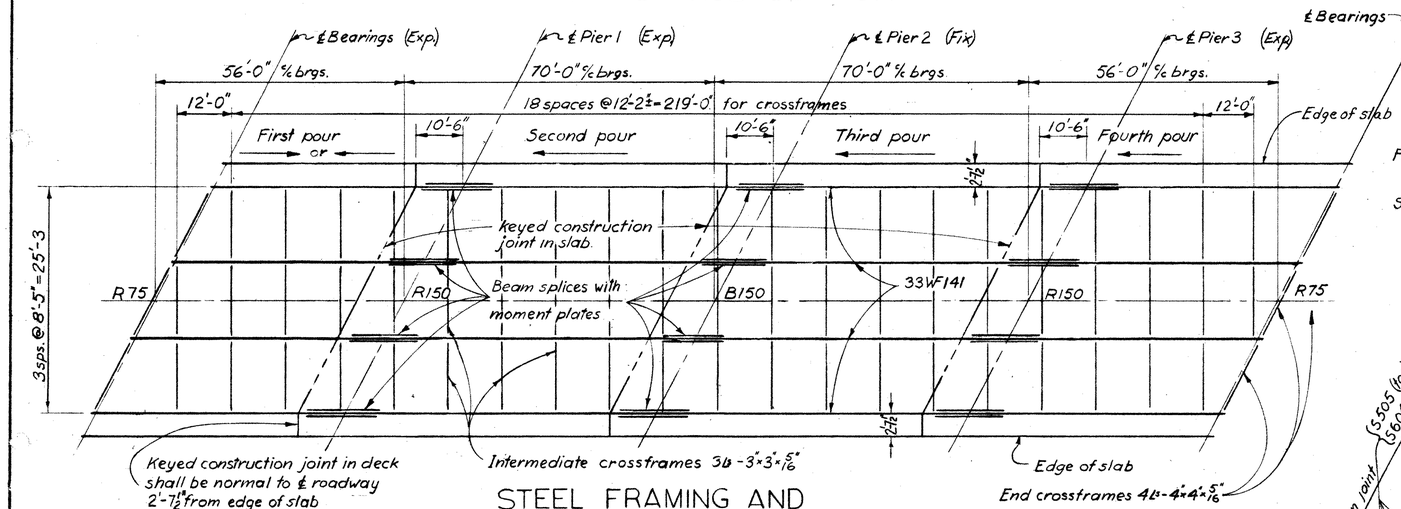
DECK CONSTRUCTION PROCEDURE: The deck slab shall be placed in sections, between transverse construction joints, in the numerical order and in the direction indicated on the "Steel Framing and Concrete Pouring Sequence," in order that the major portion of the dead load deflection may occur prior to placing concrete over each pier.

ROCKERS AND BOLSTERS shall be R-75 at the abutments and R-150 or B-150 at the piers. For details see Standard Drawing RB-1-55.

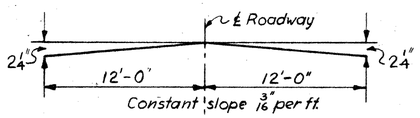
DEFLECTION AND CAMBER				
LOCATION	OUTSIDE BEAMS		INSIDE BEAMS	
	56'-0" span	70'-0" span	56'-0" span	70'-0" span
Deflection due to weight of steel	1/16"	1/16"	1/16"	1/16"
Deflection due to remaining dead load	9/16"	3/4"	5/16"	7/16"
Convexity required for vertical curve	1/8"	7/8"	1/8"	3/8"
Sum of deflection & convexity	1 3/8"	1 11/16"	15/16"	1 3/16"
Required camber	1 1/4"	1 5/8"	1"	1 3/8"

CONCRETE above safety curb construction joint is included with railing for payment.

NOTE: For details of end crossframes, end finish, curb plates, aluminum railing posts, beam cut-off at backwall, and welded butt joint in superstructure end finish angles at centerline of roadway see Sheets No. 376 & 377



STEEL FRAMING AND
CONCRETE POURING SEQUENCE



BRIDGE ROADWAY CROWN

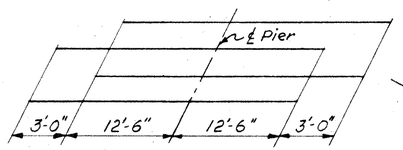
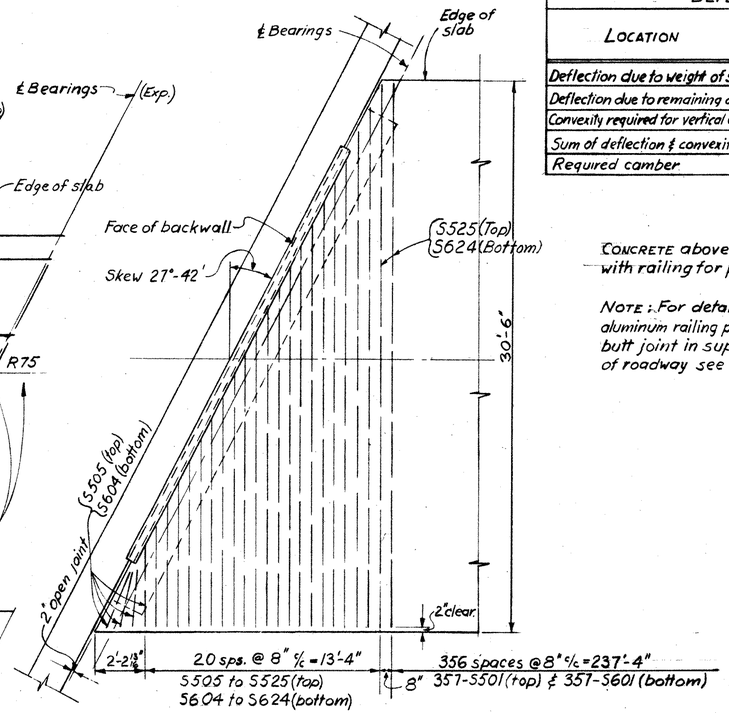


DIAGRAM SHOWING STAGGER OF
S603 BARS OVER PIERS



PART PLAN SHOWING
SHORTENED TRANSVERSE STEEL

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

420
466

AUGLAIZE COUNTY
AUG. 25-5.05

INITIAL SUBMISSION DATE 8-7-56			FINAL APPROVAL DATE
REVISED	APPROVED		
9-12-56			
10-8-56			

VARO ENGINEERS
COLUMBUS AND NEWARK, OHIO

SUPERSTRUCTURE DETAILS
BRIDGE No. AUG. 25-0877
HENGSTLER RD. OVER USR 25
AUGLAIZE COUNTY
USR. 25
STA. 513+09.19

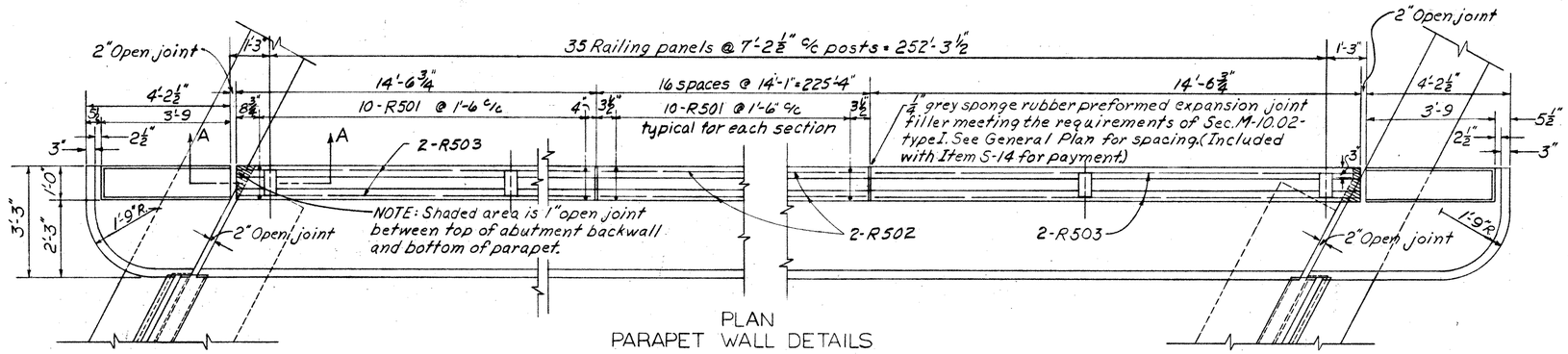
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
DWP	L.L.		R W M	DWP.	

MICROFILMED
DEC 30 1988

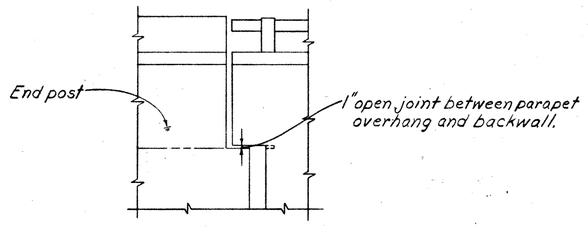
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

421
466

AUGLAIZE COUNTY
AUG-25-5.05



PLAN
PARAPET WALL DETAILS

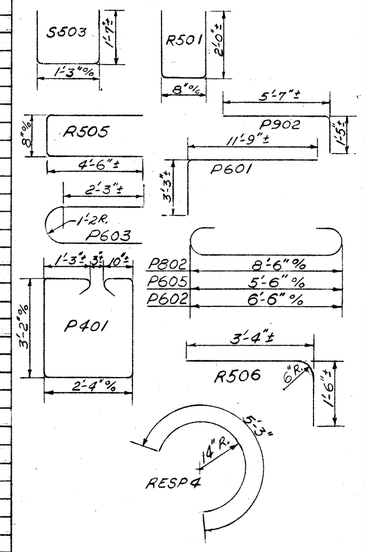


PART SECTION A-A

REINFORCING STEEL LIST

MARK	NO.	LENGTH	WEIGHT	SHP.
SUPERSTRUCTURE				
S601	357	30'-2"	16154	S
S602	392	33'-4"	19699	S
S603	63	28'-0"	2646	S
S604	8	3'-7"	46	S
S605	2	4'-10"	15	S
S606	2	6'-1"	18	S
S607	2	7'-4"	22	S
S608	2	8'-7"	26	S
S609	2	9'-11"	30	S
S610	2	11'-2"	34	S
S611	2	12'-5"	37	S
S612	2	13'-8"	41	S
S613	2	15'-0"	45	S
S614	2	16'-3"	49	S
S615	2	17'-6"	53	S
S616	2	18'-9"	56	S
S617	2	20'-1"	60	S
S618	2	21'-4"	64	S
S619	2	22'-7"	68	S
S620	2	23'-10"	72	S
S621	2	25'-1"	75	S
S622	2	26'-5"	79	S
S623	2	27'-8"	83	S
S624	2	28'-11"	87	S
S501	357	30'-2"	11243	S
S502	340	2'-8"	946	S
S503	680	4'-2"	2958	B
S505	8	3'-7"	30	S
S506	2	4'-10"	10	S
S507	2	6'-1"	13	S
S508	2	7'-4"	16	S
S509	2	8'-7"	18	S
S510	2	9'-11"	21	S
S511	2	11'-2"	23	S
S512	2	12'-5"	26	S
S513	2	13'-8"	29	S
S514	2	15'-0"	31	S
S515	2	16'-3"	34	S
S516	2	17'-6"	37	S
S517	2	18'-9"	39	S
S518	2	20'-1"	42	S
S519	2	21'-4"	45	S
S520	2	22'-7"	47	S
S521	2	23'-10"	50	S
S522	2	25'-1"	52	S
S523	2	26'-5"	55	S
S524	2	27'-8"	58	S
S525	2	28'-11"	60	S

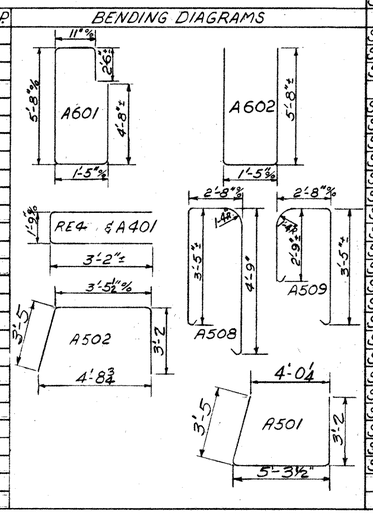
BENDING DIAGRAMS



MARK	NO.	LENGTH	WEIGHT	SHP.
RAILING				
R501	340	4'-4"	*	B
R502	28	13'-9"	*	S
R503	16	13'-11"	*	S
R504	16	3'-4"	*	S
R505	20	9'-4"	*	B
R506	8	4'-6"	*	B
PIERS				
P1001	21	11'-0"	994	S
P901	72	17'-9"	4345	S
P902	72	6'-9"	1652	B
P801	15	28'-8"	1148	S
P802	21	10'-8"	756	B
P601	18	14'-10"	401	B
P602	144	7'-10"	1692	B
P603	18	8'-2	221	B
P604	6	28'-8"	258	S
P605	18	6'-10"	186	B
	54		415	
P401	~~36~~ 34	11'-6"	~~277~~	B
REPLACEMENT BARS				
RE10	1	7'-2"	31	S
RE9	1	6'-10"	23	S
RE8	1	6'-6"	17	S
RE6	3	5'-11"	27	S
RE5	2	5'-7"	12	S
RE4	1	7'-9"	5	B
RESP4	1	5'-3"	4	B

MARK	NO.	LENGTH	WEIGHT	SHP.
ABUTMENTS				
A801	8	24'-4"	539	S
A601	32	14'-6"	697	B
A602	16	12'-6"	300	B
A501	36	11'-7	434	B
A502	36	9'-7	360	B
A503	20	23'-10	497	S
A504	14	9'-5"	138	S
A505	14	8'-0"	116	S
A506	20	10'-0"	208	S
A507	16	9'-7"	159	S
A508	8	11'-9"	98	B
A509	8	9'-9"	81	B
A510	32	3'-0"	100	S
A511	16	32'-0	668	S
A401	20	7'-9"	104	B

BENDING DIAGRAMS



*Included with Item S-14 for payment.

BAR SIZE is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four are used, indicate the bar size. For example, P801 is a No.8 size bar & P1001 is a No. 10 size.

SPIRAL REINFORCING BARS:
The "Length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap. The "No. of turns" shown in the steel list for the spiral bars is the "Length" divided by the "Pitch", plus 3 turns (total number of closed coils), expressed as the nearest whole number.
1½ closed coils shall be provided at the ends of each spiral unit.
Three steel channel, tee or angle spacers weighing approximately 0.68 lbs. per lin. ft. of spacer shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The weight of these spacers, based on 0.68 lbs per lin. ft. will be paid as reinforcing steel and is included in the tabulated quantity of spiral bars.

SPIRAL REINFORCING LIST

MARK	NO.	CORE DIA. % SPIRAL	LENGTH	PITCH	NO. TURNS	WEIGHT
SP401	9	28"	14'-6"	4½"	42	2080

INITIAL SUBMISSION DATE 3-17-56		FINAL APPROVAL DATE
REVISED	APPROVED	

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

SUPERSTRUCTURE DETAILS AND REINFORCING STEEL LIST
BRIDGE NO. AUG-25-0877
HENGSTLER RD. OVER U.S.R. 25
AUGLAIZE COUNTY U.S.R. 25
STA. 513+09.19

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
D.W.O.	J.E.S.		R.W.M.	~~H.G.R.~~		

[15] Revised as Built H.E.R. 7-20-59

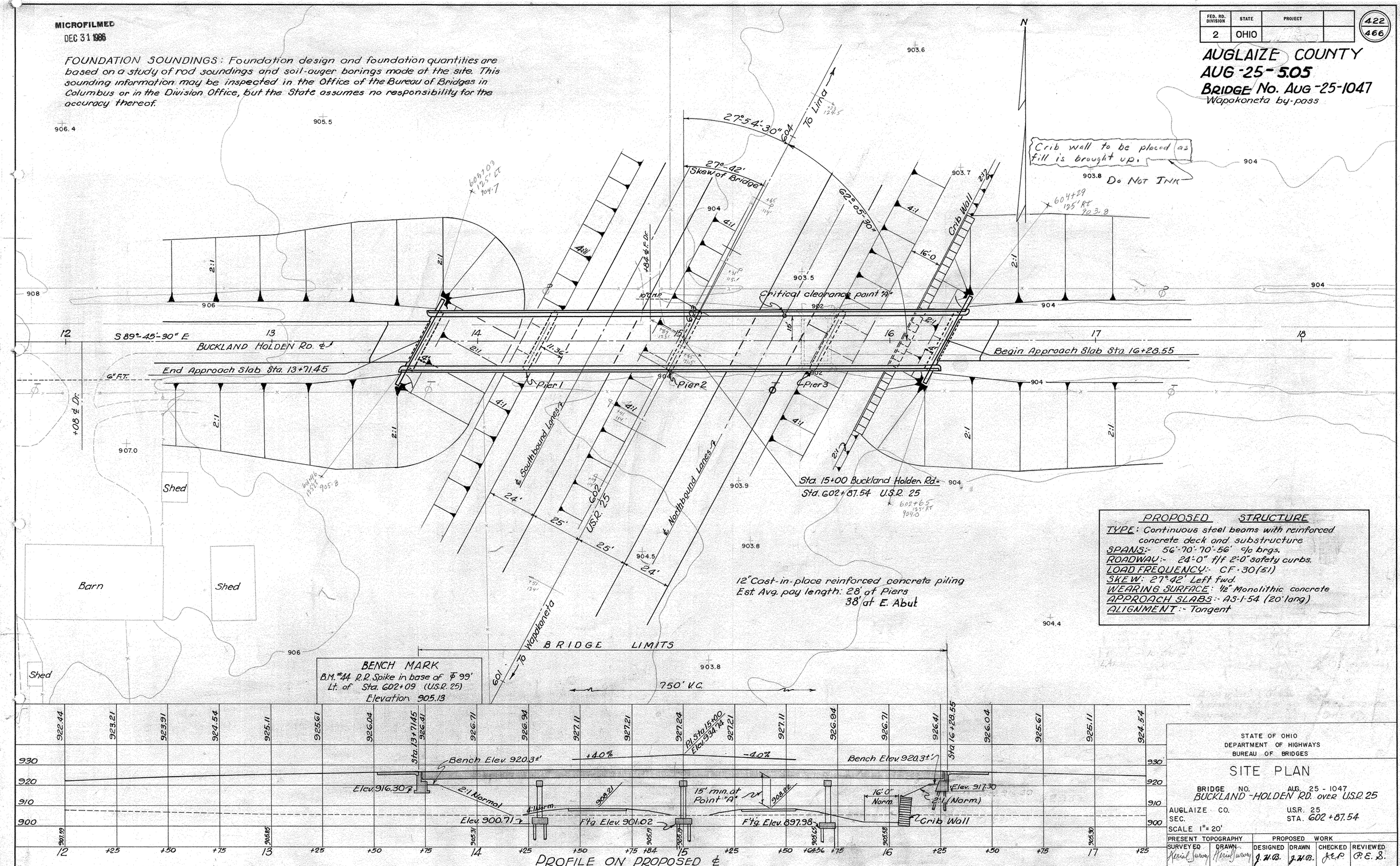
MICROFILMED
DEC 31 1986

FOUNDATION SOUNDINGS: Foundation design and foundation quantities are based on a study of rod soundings and soil-auger borings made at the site. This sounding information may be inspected in the Office of the Bureau of Bridges in Columbus or in the Division Office, but the State assumes no responsibility for the accuracy thereof.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

422
466

AUGLAIZE COUNTY
AUG-25-5.05
BRIDGE No. AUG-25-1047
Wapakoneta by-pass



PROPOSED STRUCTURE

TYPE: Continuous steel beams with reinforced concrete deck and substructure
SPANS:- 56'-70'-70'-56' c/o brgs.
ROADWAY:- 24'-0" f/f 2'-0" safety curbs.
LOAD FREQUENCY:- CF-30(51)
SKEW: 27°-42' Left fwd.
WEARING SURFACE: ½" Monolithic concrete
APPROACH SLABS:- AS-1-54 (20' long)
ALIGNMENT:- Tangent

12" Cast-in-place reinforced concrete piling
Est. Avg. pay length: 28' at Piers
38' at E. Abut

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO. AUG. 25 - 1047
BUCKLAND-HOLDEN RD. OVER U.S.R. 25

AUGLAIZE CO. U.S.R. 25
SEC. STA. 602+87.54
SCALE 1" = 20'

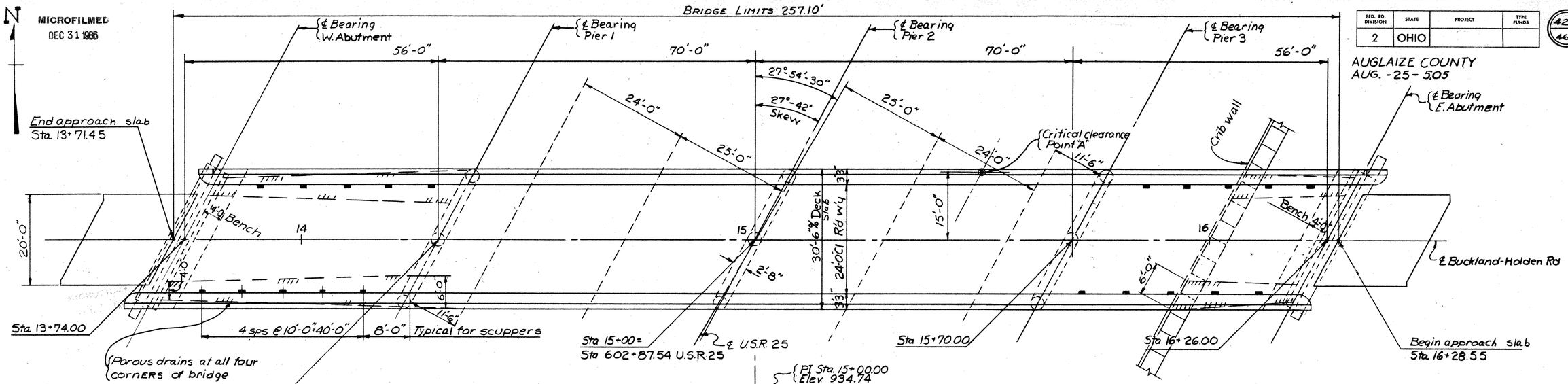
PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
Aerial Survey	Aerial Survey	J.W.B.	J.W.B.	J.E.P.	P.E.S.

MICROFILMED
DEC 31 1986

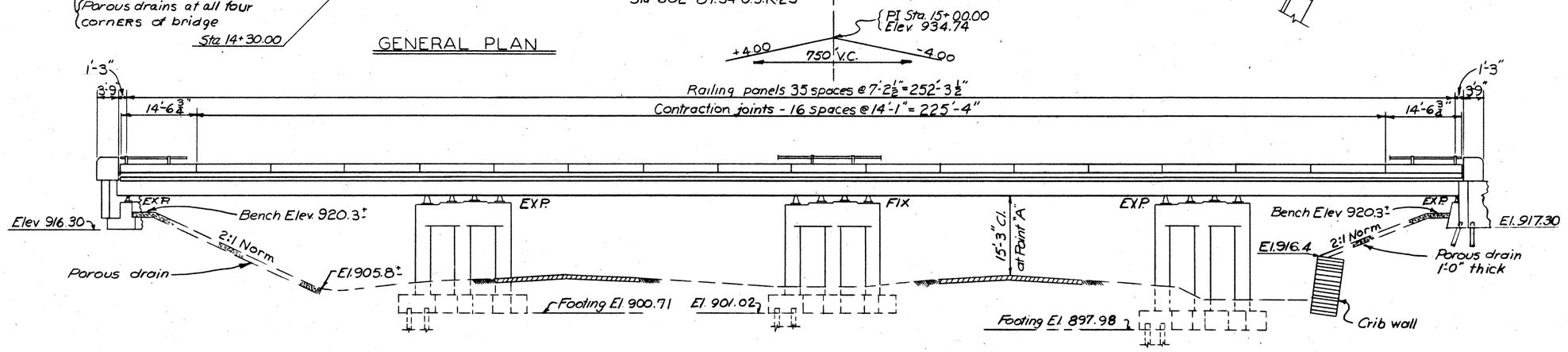
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

423
466

AUGLAIZE COUNTY
AUG. - 25 - 5.05



GENERAL PLAN



ELEVATION

Item	Total	Unit	Description	Super	Abuts	Piers	Gen'l.	As Built	
							Lump	Sum	
E-2	Lump	Sum	Cofferdams, Cribs and Sheeting						
E2	222	Cu.Yd.	Unclassified Excavation		84	138			
S-1	229	Cu.Yd.	Class "C" Concrete, Superstructure	229					
S-1	77	Cu.Yd.	Class "E" Concrete, Abutments		77				
S-1	67	Cu.Yd.	Class "C" Concrete, Pier Caps & Columns			67			
S-1	62	Cu.Yd.	Class "E" Concrete, Footings		12	50			
	25,541								
S-4	75734	Lb	Reinforcing Steel	55404	5347	14861	122	C-74, 1138 C-77, -521	75,541
S-7	178800	Lb	Structural Steel	178800					
S-8	178800	Lb	Field Painting of Structural Steel	178800					
S-14	523.50	Lin.ft.	Railing (Aluminum with concrete parapet and concrete end posts)	52350					
							Lump	Sum	
S-16	Lump	Sum	First Test Pile						
S-18	1580	Lin.ft.	12" Cast-in place Reinforced Concrete Piling			1580		C-18, -95	1485
	1485								
S-29	28	Cu.Yd.	Porous Backfill		28				
S-29	41	Cu.Yd.	Porous Drains				41		

GENERAL NOTES

SURFACE FINISH OF CONCRETE: Railing end posts, curb faces, fascias of the deck and exposed surface of piers, abutments and wing walls, shall receive a rubbed surface finish. All other exposed surfaces shall be governed by the provisions of item S-1

POROUS DRAINS, extending from face of abutment to Elevations shown, shall be provided at all four corners of the bridge. The drains shall be 6 feet wide at low end, tapering to 4 feet wide at the face of abutment, and one foot thick.

PILES shall be driven to a minimum bearing capacity of 25 tons for the abutment and 35 tons for the piers. The length of penetration at every pile shall be at least 80% of the estimated average pay length of the piles in the pertinent pier or abutment as indicated on the plans unless a lesser penetration is approved by the Director.

For additional notes see Sheet 376

Initial Submission Date 8-7-56		Final Approval Date
Revised	Approved	
9-11-56		

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

GENERAL PLAN & ELEVATION & ESTIMATED QUANTITIES

BRIDGE No. AUG. 25-1047
BUCKLAND HOLDEN RD. OVER U.S.R. 25
AUGLAIZE COUNTY U.S.R. 25 STA. 602+87.54

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
D.W.P.	G.E.	GMS. 10/5/56	R.W.M.	D.W.P.		

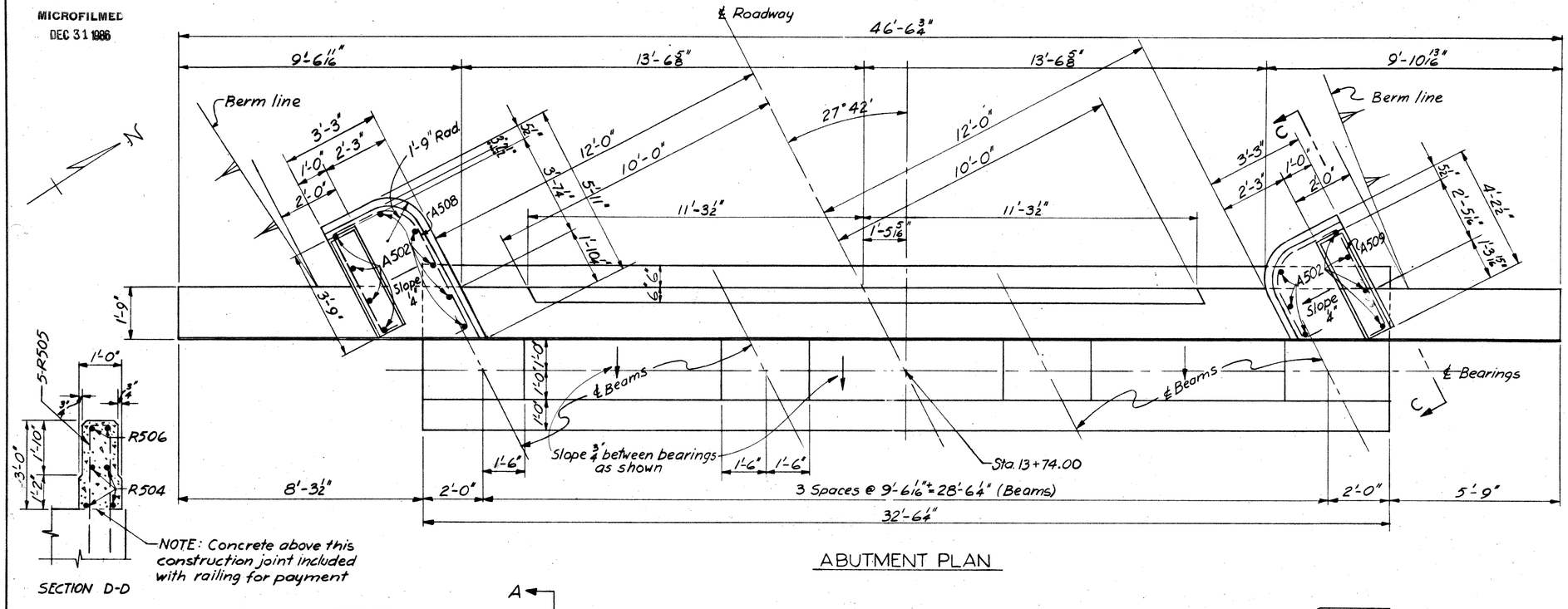
Revised As-Built H.E.R. 7-30-59

MICROFILMED
DEC 31 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

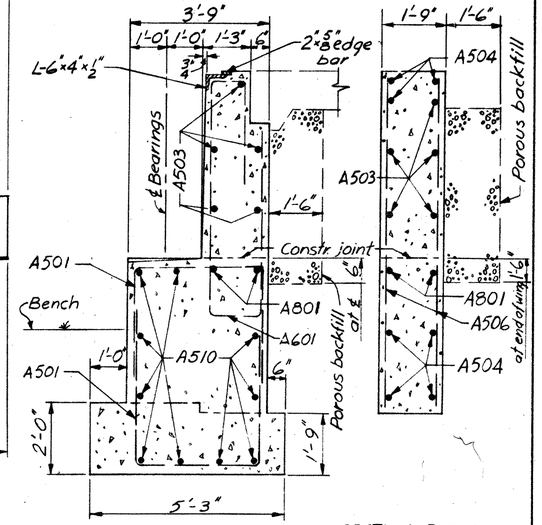
424
466

AUGLAIZE COUNTY
AUG. 25-5.05



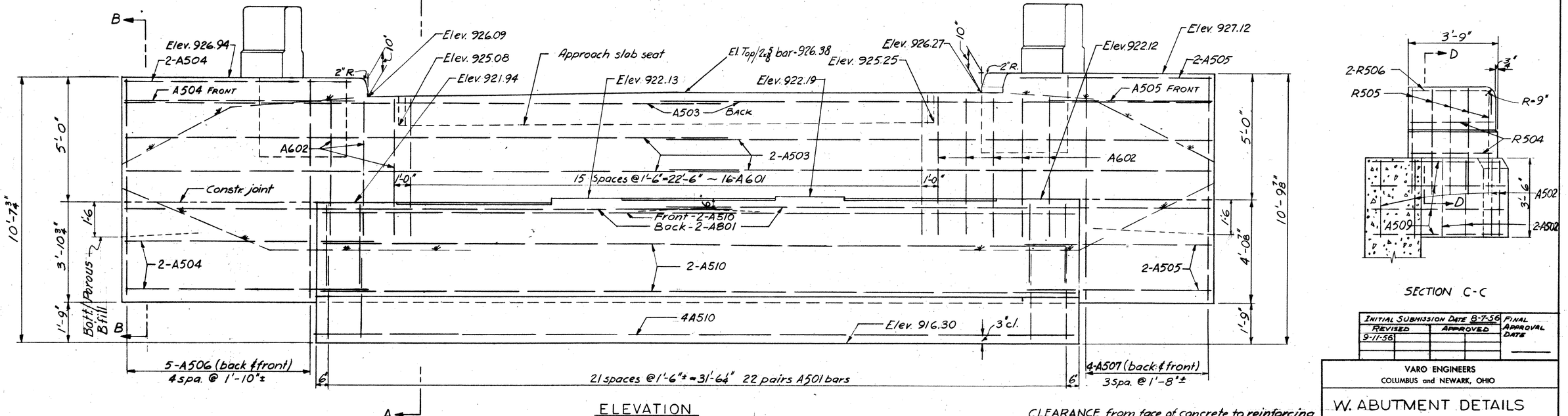
ABUTMENT PLAN

SECTION D-D



SECTION A-A

SECTION B-B



ELEVATION

SECTION C-C

NOTES

PROCEDURE: The embankment shall be placed and compacted to the height of the earth bench, after which excavation shall be made for the abutment.

POROUS BACKFILL shall extend up to the underside of the approach slab, and surface of earth shoulders and outward to the surface of embankment slopes.

CLEARANCE from face of concrete to reinforcing steel shall be 2" unless otherwise shown.

CONCRETE shall be Class "E" and payment will be made on this basis, but Class "C" concrete may be used for any or all parts of the abutment.

INITIAL SUBMISSION DATE 8-7-56		FINAL APPROVAL DATE
REVISED	APPROVED	
9-11-56		

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

W. ABUTMENT DETAILS

BRIDGE No AUG-25-1047
BUCKLAND-HOLDEN RD. OVER U.S.R. 25
AUGLAIZE COUNTY U.S.R. 25
STA. 602+87.54

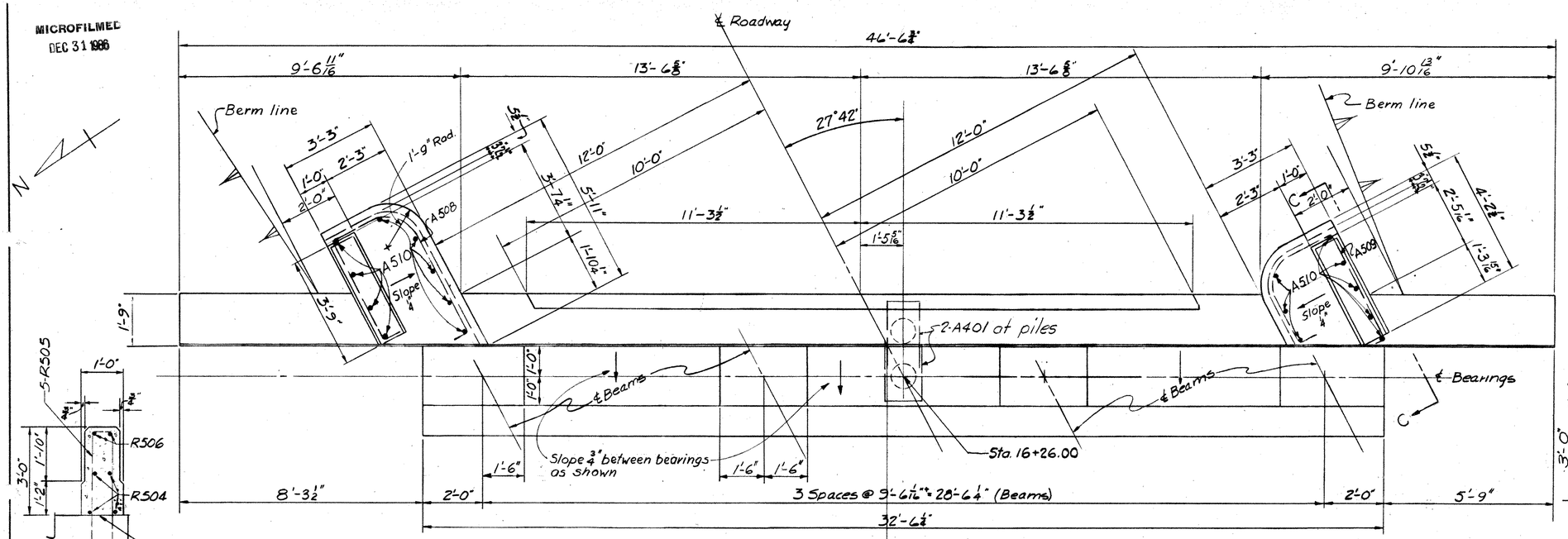
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
AWP	G. L.		RWM	AWP		

MICROFILMED
DEC 31 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

424A
466

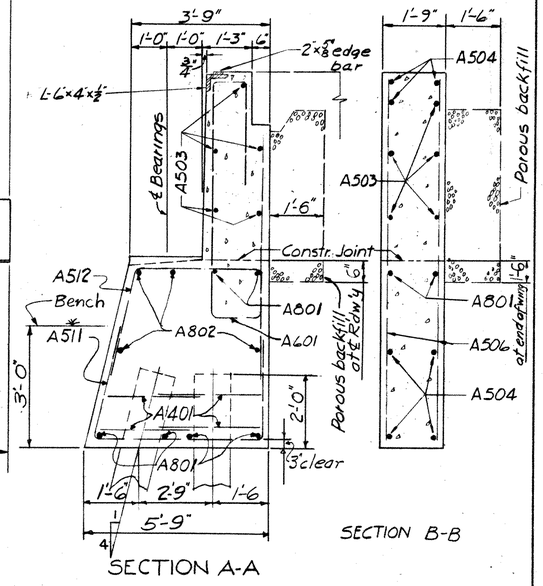
AUGLAIZE COUNTY
AUG. 25 - 5.05



ABUTMENT PLAN

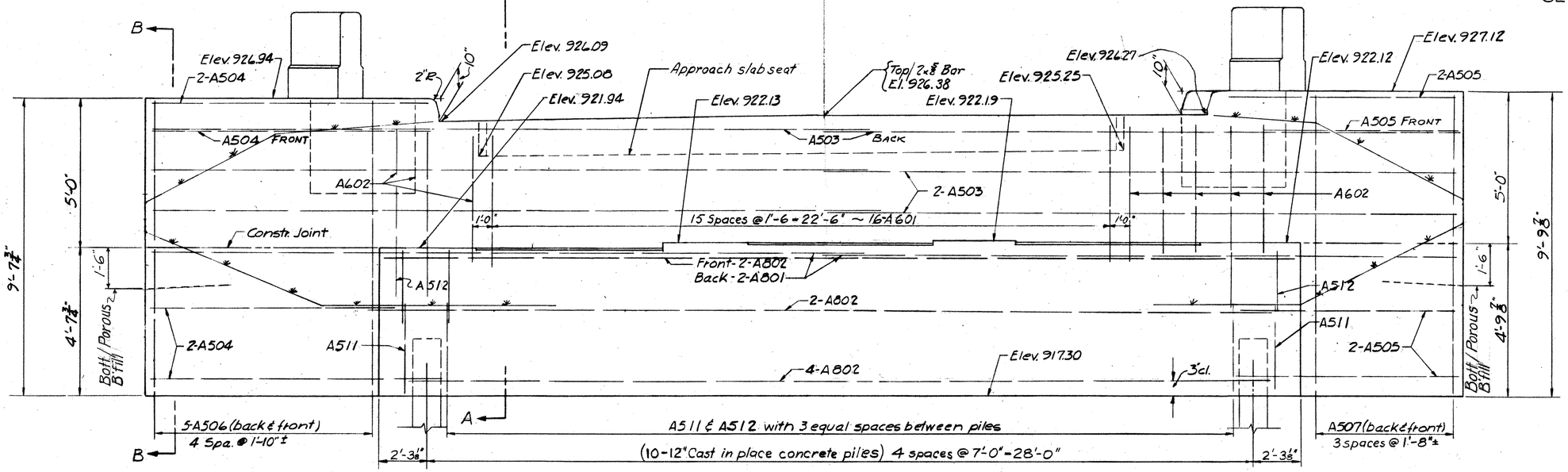
NOTE: Concrete above this construction joint included with railing for payment

SECTION D-D

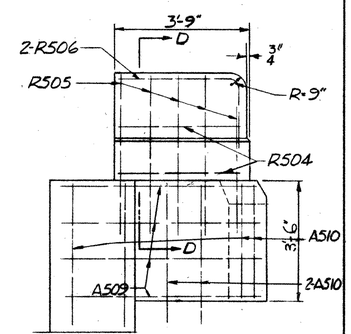


SECTION A-A

SECTION B-B



ELEVATION



SECTION C-C

Porous Backfill shall extend up to the underside of the approach slab and surface of earth shoulders and outward to the surface of embankment slopes.

CLEARANCE from face of concrete to reinforcing steel shall be 2" unless otherwise shown

CONCRETE shall be Class 'E' and payment will be made on this basis, but Class 'C' concrete may be used for any or all parts of the abutment

INITIAL SUBMISSION DATE 8-7-56		FINAL APPROVAL DATE
REVISED	APPROVED	
9-17-56		
10-8-56		

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

E. ABUTMENT DETAILS

BRIDGE NO. AUG-25-1047
BUCKLAND-HOLDEN RD. OVER U.S.R. 25
AUGLAIZE COUNTY U.S.R. 25
STA 602+87.54

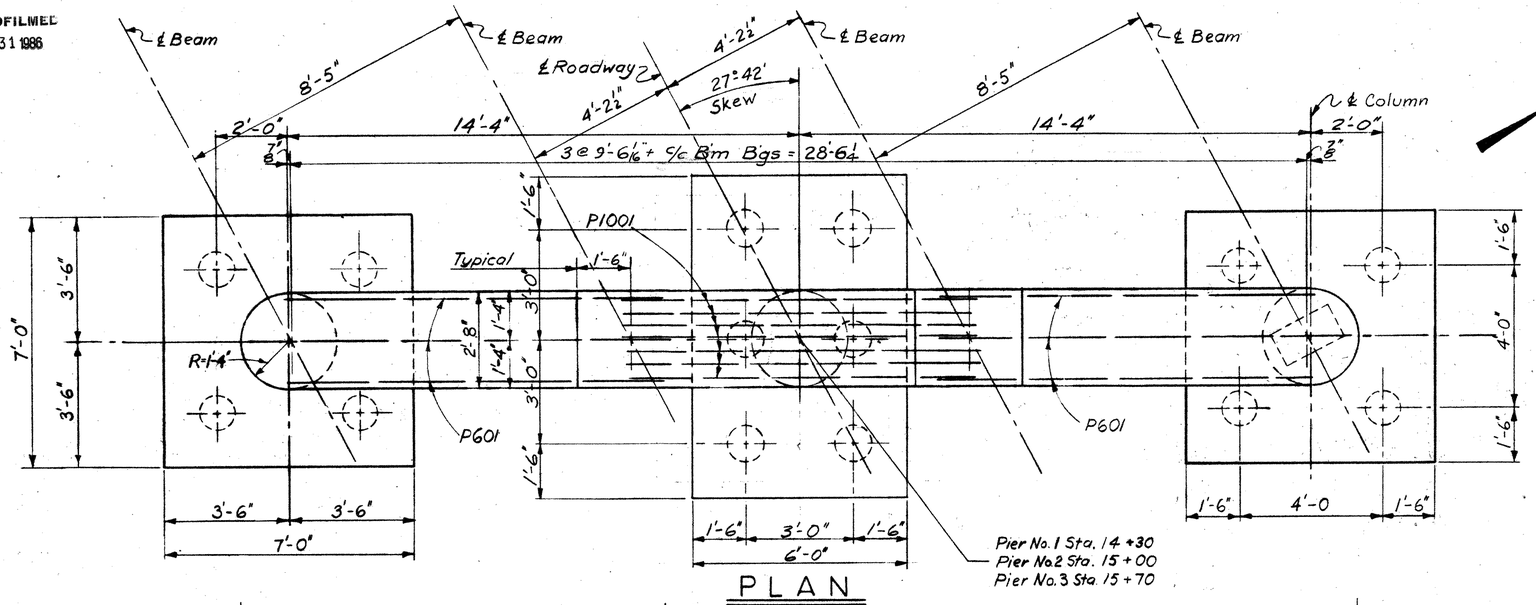
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
AWP	M.H.		RWM	AWP		

MICROFILMED
DEC 31 1986

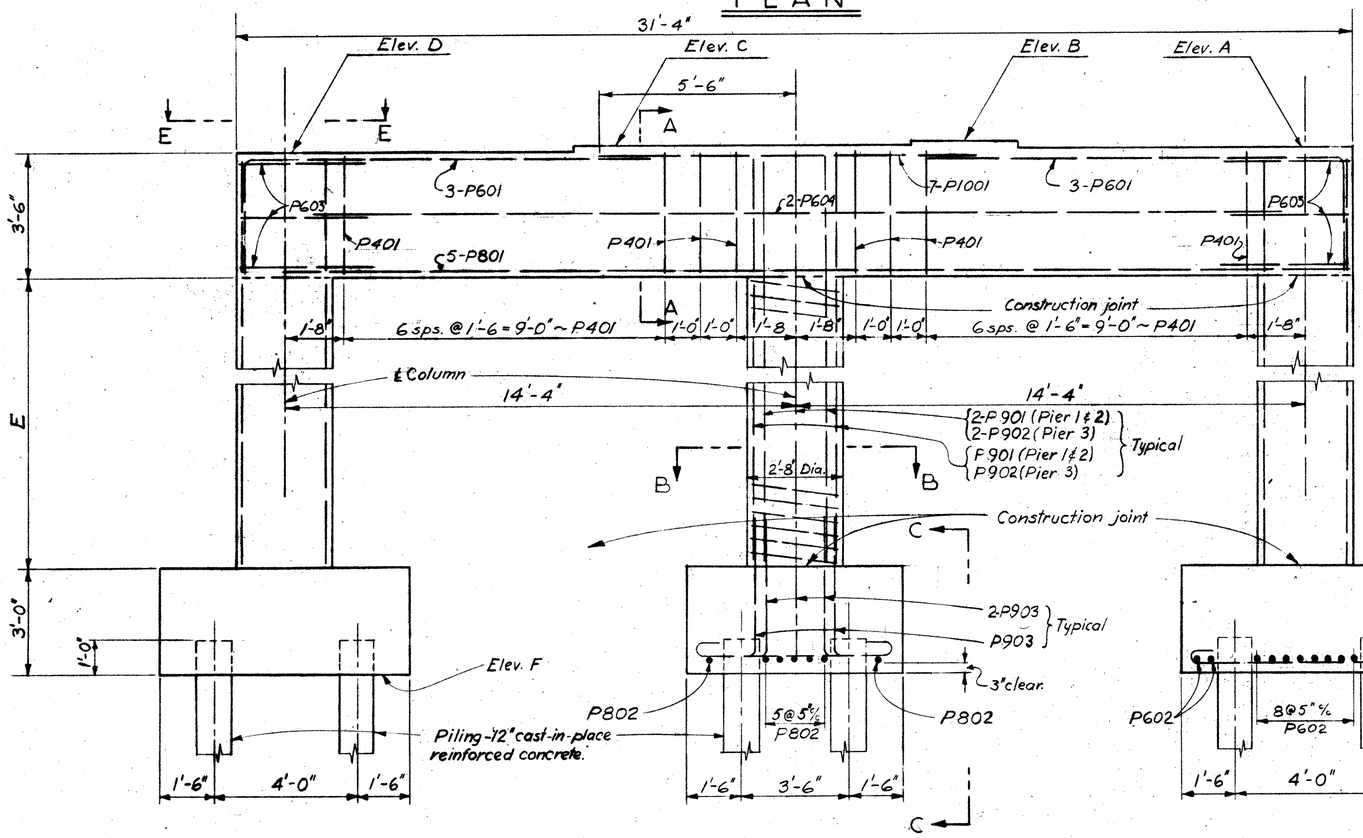
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

425
466

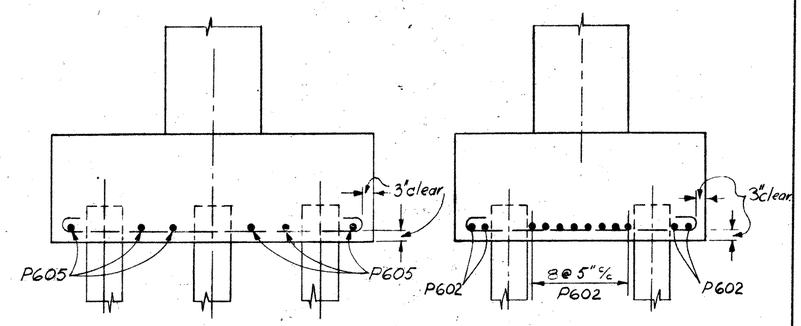
AUGLAIZE COUNTY
AUG. 25-5.05



PLAN

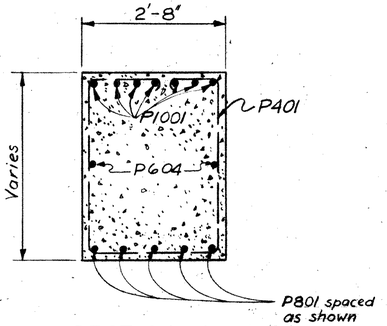


ELEVATION

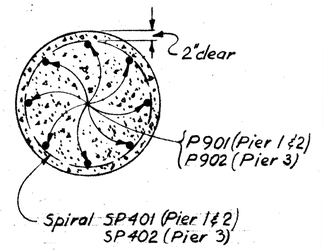


VIEW C-C

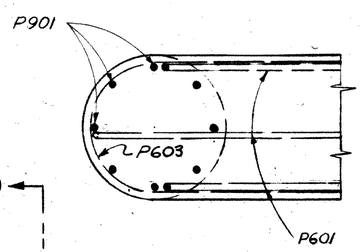
VIEW D-D



SECTION A-A



SECTION B-B



VIEW E-E

CONCRETE shall be class "C" for caps and columns and class "E" for footings.

REINFORCING STEEL shall be 2" clear unless otherwise indicated.

Locate P601 bars on periphery of P901, P902 bars and wire together.

PIER ELEVATIONS & DIMENSIONS

Pier	A	B	C	D	E	F
1	922.31	922.41	922.38	922.21	15'-0"	900.71
2	922.52	922.65	922.65	922.52	15'-0"	901.02
3	922.21	922.38	922.41	922.31	17'-10"	897.98

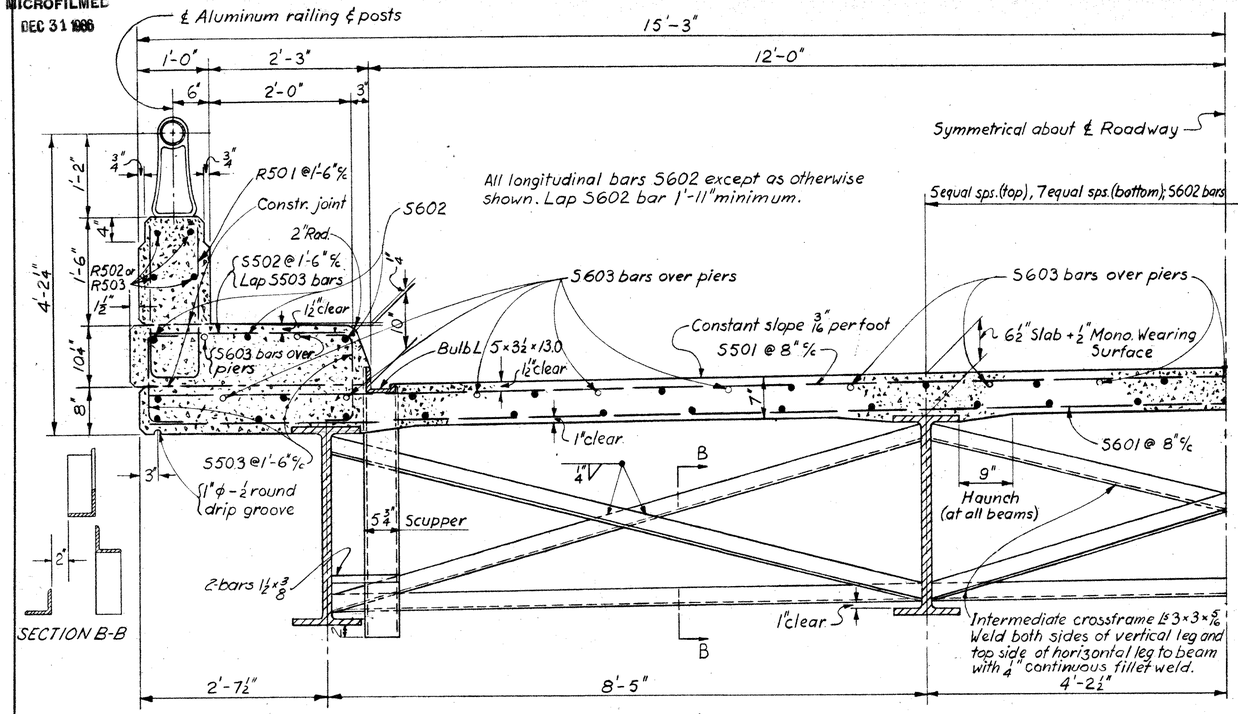
INTIAL SUBMISSION DATE 8-7-56			FINAL APPROVAL DATE
REVISED		APPROVED	
9-11-56			

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

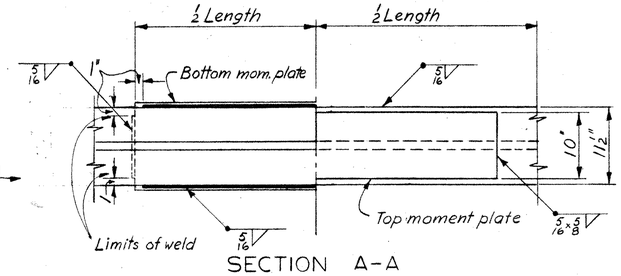
PIER DETAILS
BRIDGE No AUG-25-1047
BUCKLAND-HOLDEN RD. OVER U.S.R. 25
AUGLAIZE COUNTY U.S.R. 25 STA. 602+87.54

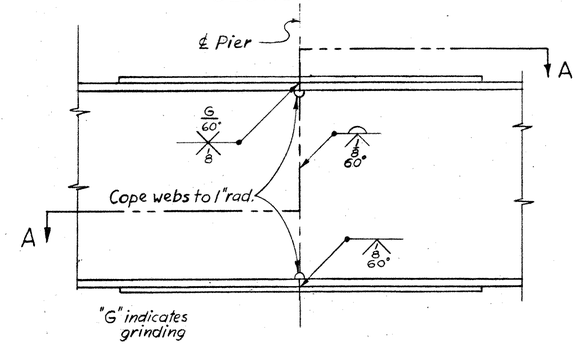
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
H.S.R.	L.L.		R.W.M.	A.W.C.		

MICROFILMED
DEC 31 1986



HALF TRANSVERSE SECTION





BEAM SPLICE DETAILS
WITH MOMENT PLATES

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

426
466

AUGLAIZE COUNTY
AUG. 25 - 5.05

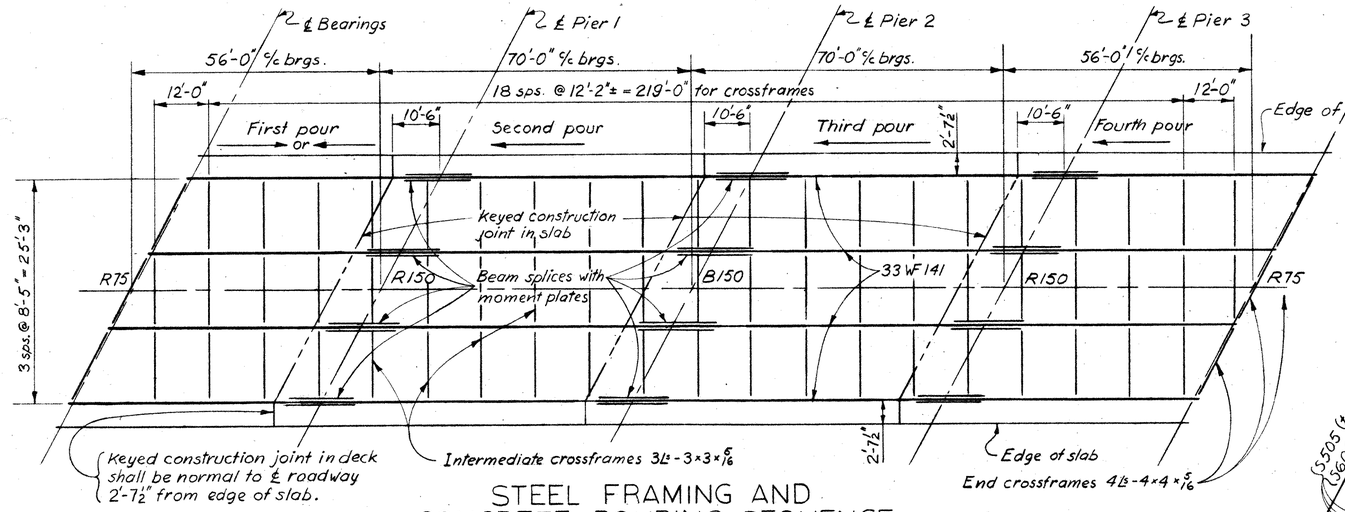
PIER	MOMENT PLATE SIZE	
	TOP PLATE	BOTTOM PLATE
Rear & Forward	10" x 1½" x 12'-0"	13" x 1½" x 12'-0"
Center	10" x 1½" x 13'-6"	13" x 1½" x 13'-6"

BEAM SPLICE WELDING PROCEDURE

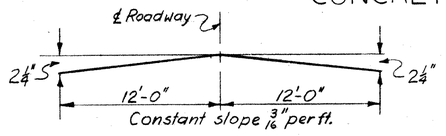
1. Raise end of beam at second pier 1 7/8".
2. At pier 1 butt weld the beam flanges and web using the following sequence: make one pass on each flange, then one on the web; repeat until welds are completed.
3. Weld top and bottom flange moment plates at first pier.
4. Lower end of beam at second pier.
5. Make splice at second and third piers in the same manner raising the end of the beams 1⅞" at the third pier and 1" at the forward abutment.

DECK CONSTRUCTION PROCEDURE: The deck slab shall be placed in sections, between transverse construction joints, in the numerical order and in the direction indicated on the "Steel Framing and Concrete Pouring Sequence", in order that the major portion of the dead load deflection may occur prior to placing concrete over each pier.

ROCKERS AND BOLSTERS shall be R-75 at the abutments and R-150 or B-150 at the piers. For details see Standard Drawing RB-1-55



STEEL FRAMING AND
CONCRETE POURING SEQUENCE



BRIDGE ROADWAY CROWN

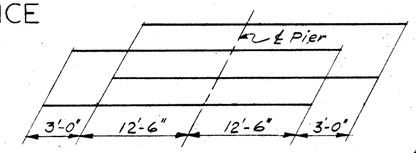
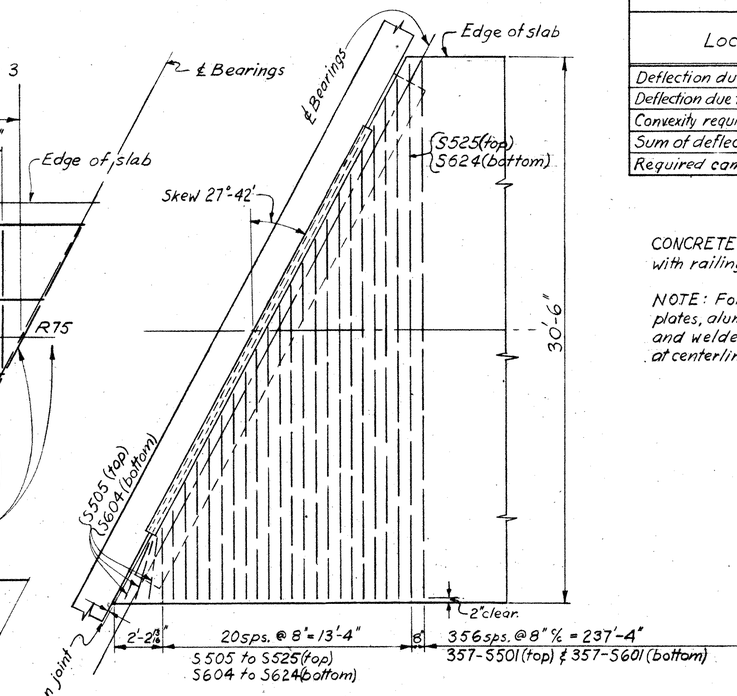


DIAGRAM SHOWING STAGGER OF
S603 BARS OVER PIERS



PART PLAN SHOWING
SHORTENED TRANSVERSE STEEL

DEFLECTION AND CAMBER

LOCATION	Outside Beams		Inside Beams	
	56'-0"	70'-0"	56'-0"	70'-0"
Deflection due to weight of steel	1/16"	1/16"	1/16"	1/16"
Deflection due to remaining dead load	9/16"	3/4"	5/16"	7/16"
Convexity required for vertical curve	1/2"	3/4"	1/2"	3/4"
Sum of deflection & convexity	1⅛"	1 9/16"	7/8"	1¼"
Required camber	1⅛"	1⅛"	1"	1¼"

CONCRETE above safety curb construction joint is included with railing for payment.

NOTE: For details of end crossframes, end finish, curb plates, aluminum railing posts, beam cut-of at backwall, and welded butt joint in superstructure end finish angles at centerline of roadway see Sheets No. 376 & 377.

INTIAL SUBMISSION DATE 8-7-56			FINAL APPROVAL DATE
REVISED		APPROVED	
9-11-56			

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

SUPERSTRUCTURE DETAILS
BRIDGE No. AUG. 25-1047
BUCKLAND-HOLDEN RD. OVER U.S.R. 25
AUGLAIZE COUNTY U.S.R. 25
STA. 602+87.54

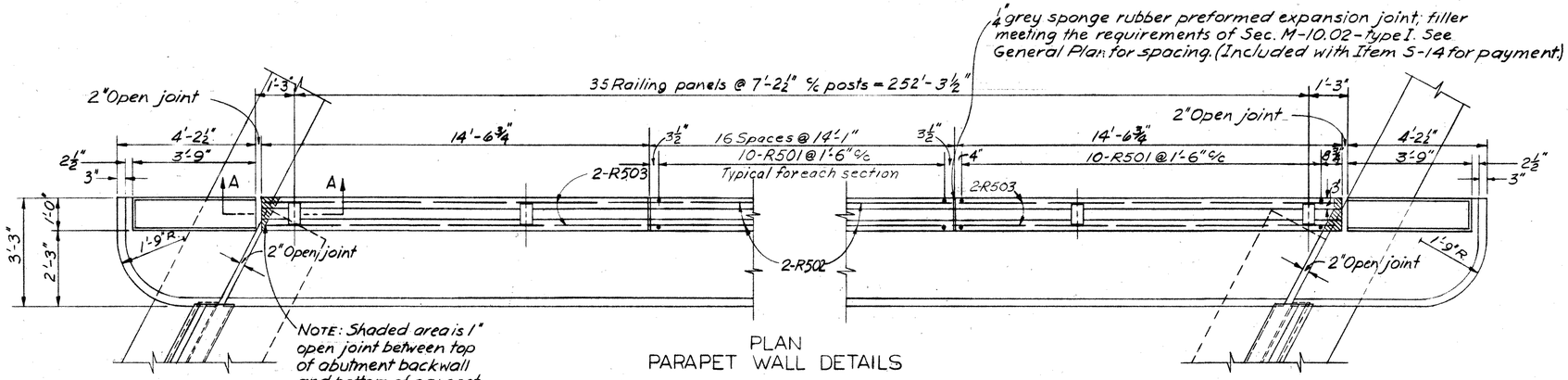
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
AWP	L.E.		RWM	AWP		

MICROFILMED
DEC 31 1986

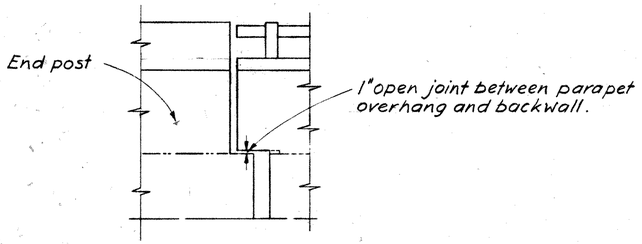
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

427
466

AUGLAIZE COUNTY
AUG.-25- 5.05



PLAN
PARAPET WALL DETAILS

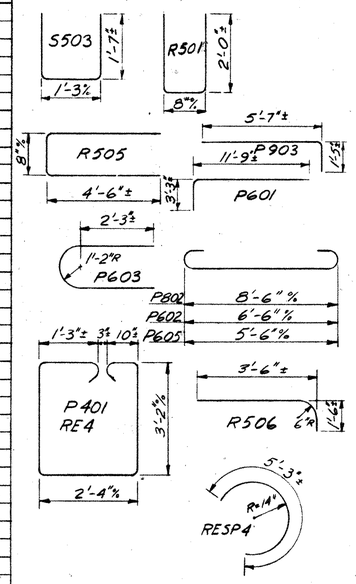


PARTIAL SECTION A-A

REINFORCING STEEL LIST

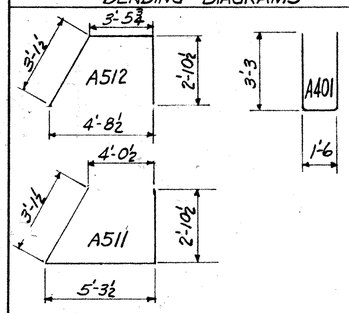
MARK	NO.	LENGTH	WEIGHT	SHP.
SUPERSTRUCTURE				
S601	357	30'-2"	16154	S
S602	392	33'-4"	19699	S
S603	63	28'-0"	2646	S
S604	8	3'-7"	46	S
S605	2	4'-10"	15	S
S606	2	6'-1"	18	S
S607	2	7'-4"	22	S
S608	2	8'-7"	26	S
S609	2	9'-11"	30	S
S610	2	11'-2"	34	S
S611	2	12'-5"	37	S
S612	2	13'-8"	41	S
S613	2	15'-0"	45	S
S614	2	16'-3"	49	S
S615	2	17'-6"	53	S
S616	2	18'-9"	56	S
S617	2	20'-1"	60	S
S618	2	21'-4"	64	S
S619	2	22'-7"	68	S
S620	2	23'-10"	72	S
S621	2	25'-1"	75	S
S622	2	26'-5"	79	S
S623	2	27'-8"	83	S
S624	2	28'-11"	87	S
S501	357	30'-2"	11243	S
S502	340	2'-8"	946	S
S503	680	4'-2"	2958	B
S505	8	3'-7"	30	S
S506	2	4'-10"	10	S
S507	2	6'-1"	13	S
S508	2	7'-4"	16	S
S509	2	8'-7"	18	S
S510	2	9'-11"	21	S
S511	2	11'-2"	23	S
S512	2	12'-5"	26	S
S513	2	13'-8"	29	S
S514	2	15'-0"	31	S
S515	2	16'-3"	34	S
S516	2	17'-6"	37	S
S517	2	18'-9"	39	S
S518	2	20'-1"	42	S
S519	2	21'-4"	45	S
S520	2	22'-7"	47	S
S521	2	23'-10"	50	S
S522	2	25'-1"	52	S
S523	2	26'-5"	55	S
S524	2	27'-8"	58	S
S525	2	28'-11"	60	S

BENDING DIAGRAMS



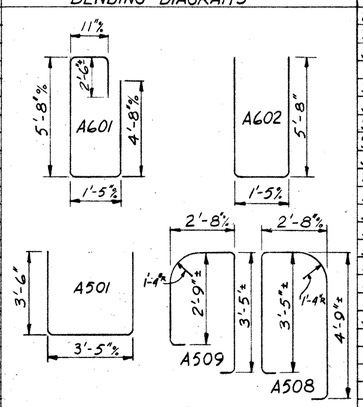
MARK	NO.	LENGTH	WEIGHT	SHP.
RAILING				
R501	360	4'-4"	*	B
R502	28	13'-9"	*	S
R503	16	13'-11"	*	S
R504	16	3'-4"	*	S
R505	20	9'-4"	*	B
R506	8	4'-6	*	B
PIERS				
P1001	21	11'-0"	994	S
P901	48	18'-4"	2964	S
P902	24	21'-2"	1741	S
P903	72	6'-9"	1652	B
P801	15	28'-8"	1148	S
P802	21	10'-8"	756	B
P601	18	14'-10"	401	B
P602	144	7'-10"	1692	B
P603	18	8'-2"	221	B
P604	6	28'-8"	258	S
P605	16	6'-10"	186	B
P401	36	12'-6	277	B
REPLACEMENT BARS				
RE10	1	7'-2"	31	S
RE9	1	6'-10"	23	S
RE8	1	6'-6"	17	S
RE6	3	5'-11"	27	S
RE5	2	5'-7"	12	S
RE4	1	12'-6"	8	B
RESP4	1	5'-3	4	B

BENDING DIAGRAMS



MARK	NO.	LENGTH	WEIGHT	SHP.
ABUTMENTS				
A801	8	24'-4"	539	S
A802	8	32-0	683	S
A601	32	14'-6"	697	B
A602	16	12'-6"	300	B
A501	44	10'-3	470	B
A502	32	3'-0"	100	S
A503	20	23'-10"	497	S
A504	14	9'-5	138	S
A505	14	8'-8"	116	S
A506	20	8'-6"	177	S
A507	16	8'-9"	146	S
A508	8	11'-9"	98	B
A509	8	9'-9"	81	B
A510	10	32'-0"	334	S
A511	36	11'-2	420	B
A512	36	9'-2	344	B
A401	40	7'-9	207	B

BENDING DIAGRAMS



* Included with Item S-14 for payment.

BAR SIZE is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four are used, indicate the bar size. For example, P801 is a No.8 size bar & P1001 is a No.10 size.

SPIRAL REINFORCING LIST

MARK	NO.	CORE DIA. c/c SPIRAL	LENGTH	PITCH	NO. TURNS	WEIGHT
SP401	6	28"	15'-0"	4½"	43	1611
SP402	3	28"	17'-10"	4½"	51	960

SPIRAL REINFORCING BARS:
The "Length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap. The "No. of turns" shown in the steel list for the spiral bars is the "Length" divided by "Pitch", plus 3 turns (total number of closed coils), expressed as the nearest whole number.
1½ closed coils shall be provided at the ends of each spiral unit. Three steel channel, tee or angle spacers weighing approximately 0.68 lbs. per lin.ft of spacer shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The weight of these spacers based on 0.68 lbs per lin.ft will be paid as reinforcing steel and is included in the tabulated quantity of spiral bars.

INITIAL SUBMISSION DATE 9-17-86			FINAL APPROVAL DATE
REVISED		APPROVED	

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

SUPERSTRUCTURE DETAILS AND REINFORCING STEEL LIST

BRIDGE No AUG-25-1047
BUCKLAND-HOLDEN RD. OVER USR.25
USR.25
AUGLAIZE COUNTY
STA. 602+8754

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RWP	B.G.		RWM	RWP		

MICROFILMED
DEC 31 1986

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

428
466

AUGLAIZE COUNTY
AUG-25-5.05
BRIDGE No. AUG-25-1234
Wapakoneta By-pass

Capped Nail
Sta. 10+00 ℄
34.05'
55.31'
66.67'
Capped Nail
Capped Nail in Cor. Post.

1-S-Stucco
Removed by Division #1

To Lima
24' 25' 25' 24'
℄ Proposed Southbound Lanes
℄ Proposed Northbound Lanes
699+00

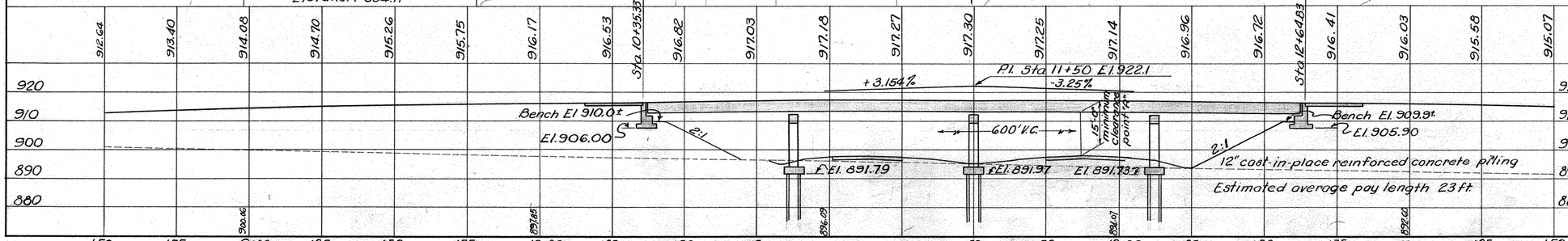
Tacked Hub
R.R. Spike B.M.
Sta. 13+00
28.93'
57.00'
91.24'
Capped Nail

900
898
896
894
892
890
3:1 4:1
2:1
6'-4½" min. horiz. clearance at Sta. 698+24.39
Critical clearance Point "A"
8" F.T.
12" C.M.P.
End Appr. Slab Sta. 10+35.33
Begin Appr. Slab Sta. 12+64.83
29'
20'
8"-C.M.P.
698'-00"
30'
4'
2:1
To Cridersville
℄ National Rd.
9+00
10+00
11+00
12+00
13+00
14+00
5" F.T.
8" F.T.
4" F.T.
90°-58'-45"
Sta. 11+50 National Rd. = Sta. 697+93.33 U.S.R. 25
℄ Sta 697+16.16
Begin flare Sta 0+00
Ramp (C)
697+00
℄ U.S.R. 25
To Wapakoneta
1½-S-F
Gar.
6" F.T.
5" Conc. Cistern Lid
30'X30' Conc. Wall
Shed
24" Walk
Chet Fr.
Barn
Outhouse
Bridge Limits
902

FOUNDATION SOUNDING: Foundation design and foundation quantities are based on a study of rod soundings and soil-sampling soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus, or in the Division Office, but the State assumes no responsibility for the accuracy thereof.

PROPOSED STRUCTURE
TYPE: Continuous steel beams with reinf. concrete deck and substructure
SPANS: 50'-62.5'-62.5'-50' c/c brgs.
ROADWAY:- 49'-0" t/f 2'-0" safety curbs (including median)
LOAD FREQUENCY:- CF-400(51)
SKEW: None
WEARING SURFACE: 1" Monolithic
APPROACH SLAB: AS-1-54 (20' long)
ALIGNMENT: Tangent

BENCH MARK
B.M #58 R.R. Spike in base of ℄ 133' Rt. of Sta. 698+15
Elevation 894.11



STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO. AUG 25 - 1234
NATIONAL ROAD over U.S.R. 25
AUGLAIZE CO. USR. 25
SEC. STA. 697+93.33
SCALE 1"= 20'

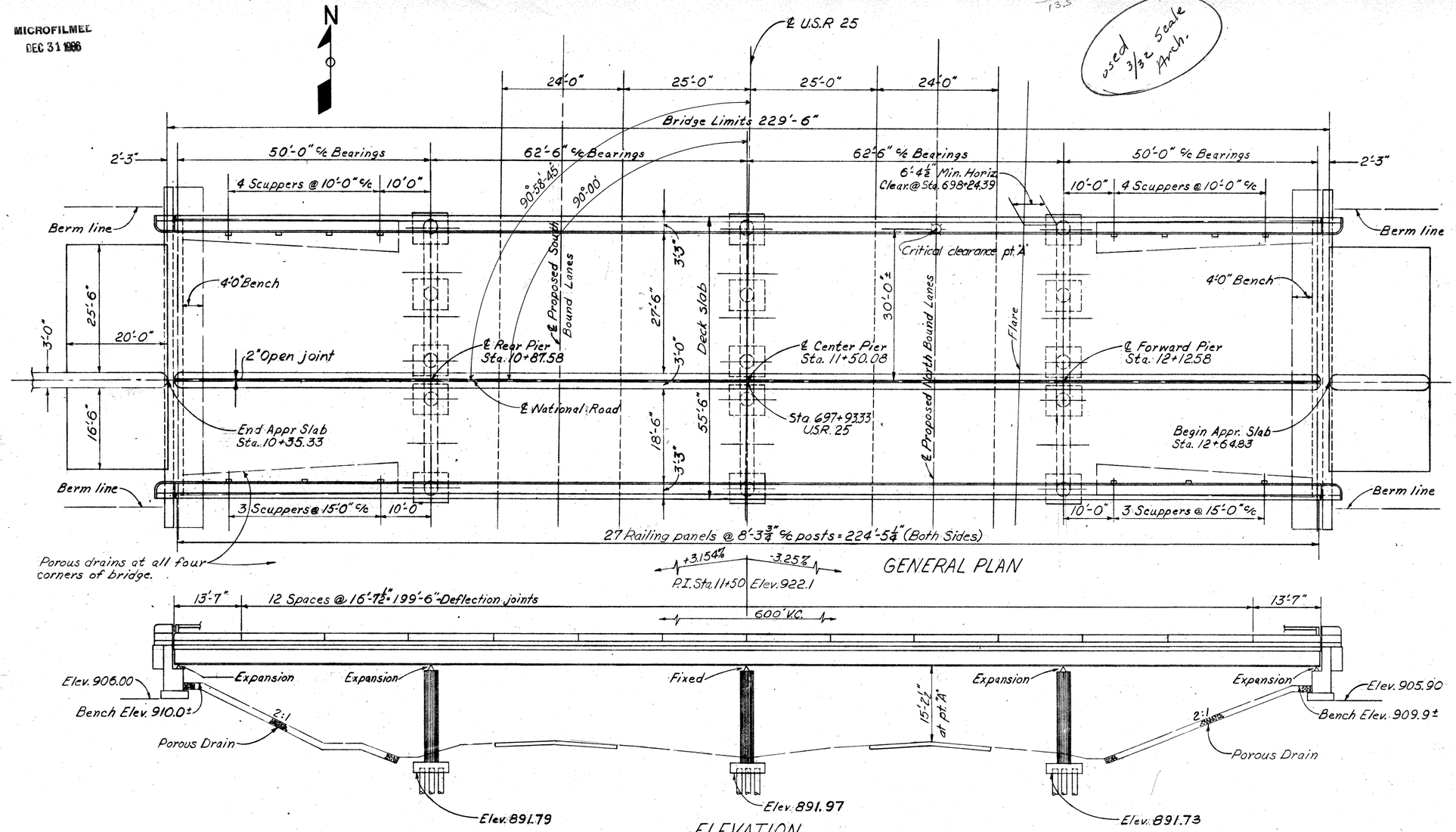
PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
Aerial Survey	Aerial Survey	D. I. C.	D. I. C.	D.H.S.	P.E.S.

MICROFILMED
DEC 31 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

429
466

AUGLAIZE COUNTY
AUG-25-5.05



GENERAL NOTES

1. FOR ADDITIONAL GENERAL NOTES see Sheet No. 376
2. SURFACE FINISH OF CONCRETE: Railing end posts, railing parapet, fascias of deck and exposed surfaces of piers, abutments and wing walls shall receive a rubbed surface finish. All other exposed surfaces shall be governed by the provisions of Item S-1.
3. POROUS DRAINS, extending from face of abutment to Elev. 895.30 shall be provided at all four corners of the bridge. The drains shall be 6 ft. wide at the low end, tapering to 4 ft wide at the face of the abutment and one foot thick.
4. PILES shall be driven to a minimum bearing capacity of 35 tons. The length of penetration of every pile shall be at least 80% of estimated average pay length of the piles in the pertinent pier or abutment as indicated on the plans unless a lesser penetration is approved by the Director.
5. MAINTAINING TRAFFIC: The contractor shall safeguard the traveling public using relocated U.S. 25 by providing platforms, nets or other suitable protection above the traveled lanes.

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Superstr.	Piers	Abuts.	Gen.	As Built	
E-2	Lump	Sum	Cofferdams, cribs and sheeting		Lump				
E-2	310	Cu. Yds.	Unclassified excavation		176	134			
S-1	385	Cu. Yds.	Class "C" concrete, superstructure	385					
S-1	94	Cu. Yds.	Class "C" concrete, pier caps and columns		94				
S-1	112	Cu. Yds.	Class "E" concrete, abutments above footings			112			
S-1	101	Cu. Yds.	Class "E" concrete, footings .		61	40			
S-4	~~129,662~~ 129,488	Lbs.	Reinforcing steel	~~105,889~~ 105,889	~~17445~~ 17445	6206	122	C-17, -174	129,488 AA
S-7	185500	Lbs.	Structural steel	185500					
S-8	185500	Lbs.	Field painting of structural steel	185500					
S-14	467	Lin. ft.	Railing (aluminum rail and supports, concrete parapet and end posts)	467					
S-16	Lump	Sum	First test pile				Lump		
S-18	~~1480~~ 1480	Lin. ft.	12" cast-in-place reinforced concrete piling		1480			C-18, -346	1134 AA
S-29	35	Cu. Yds.	Porous backfill			35			
S-29	28	Cu. Yds.	Porous drains on embankment slopes				28		

INITIAL SUBMISSION DATE 9-17-56			FINAL APPROVAL DATE
REVISED		APPROVED	
9-26-56			
10-8-56			

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

GENERAL PLAN & ELEVATION — NOTES & ESTIMATED QUANTITIES
BRIDGE NO. AUG 25-1234
NATIONAL ROAD OVER U.S.R. 25

AUGLAIZE CO. U.S.R. 25 STA. 697+93.33

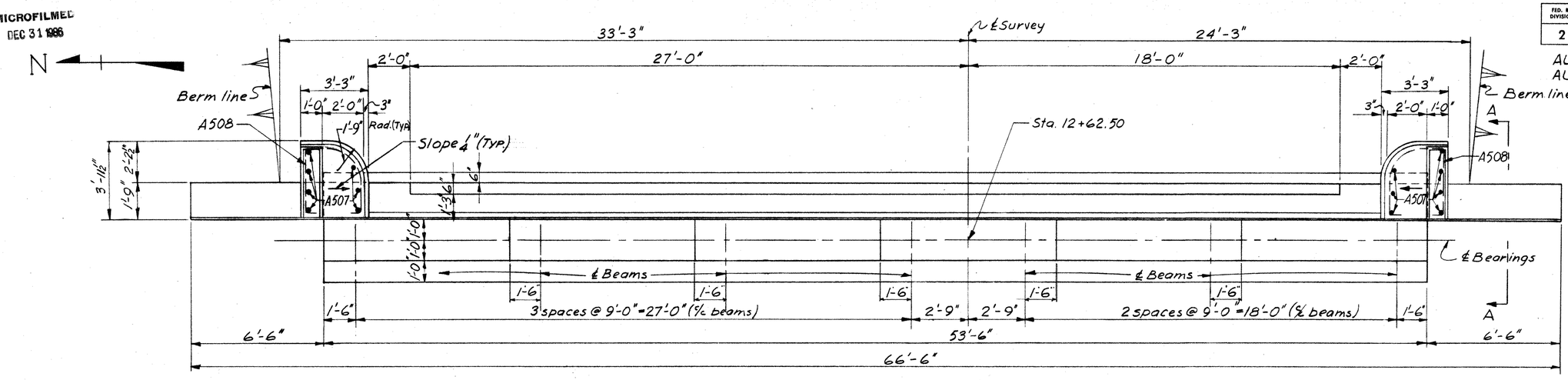
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
DWP	J.E.S.		RWM	MR		

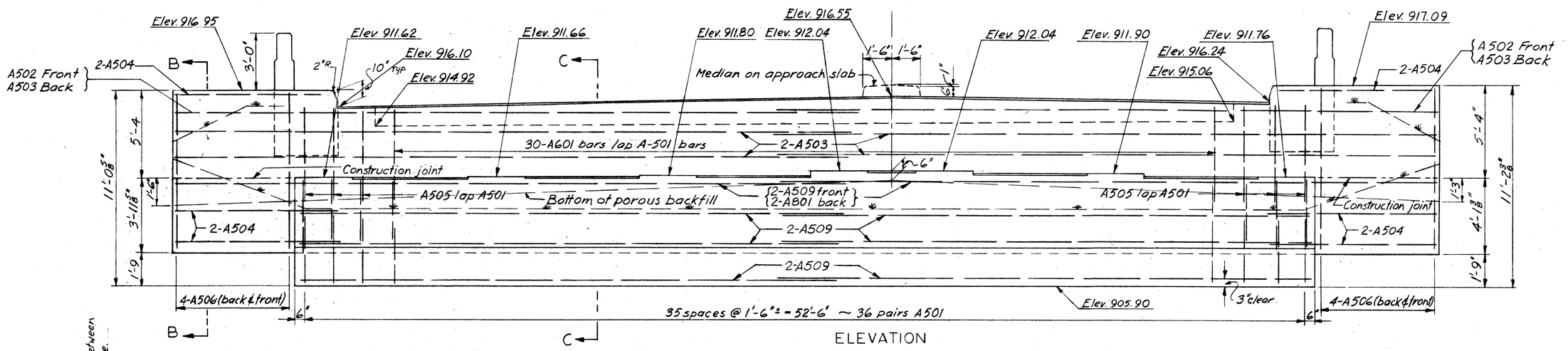
MICROFILMED
DEC 31 1986

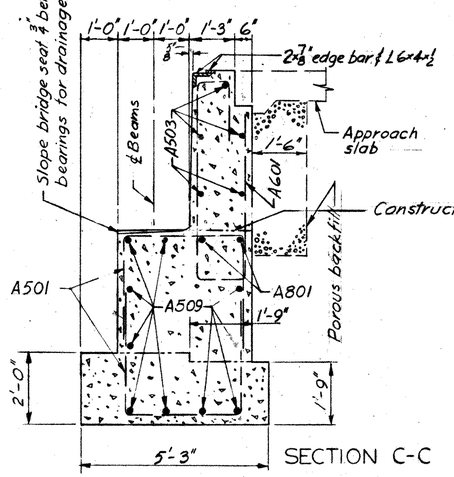
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

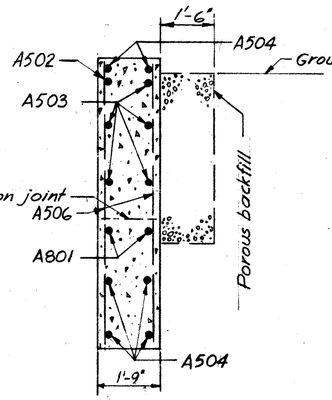
430
466

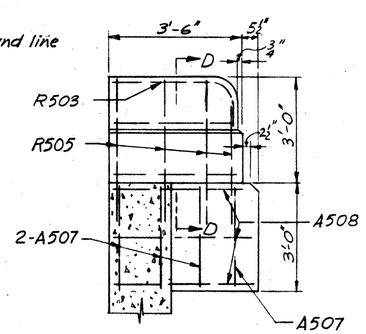
AUGLAIZE COUNTY
AUG-25-5.05

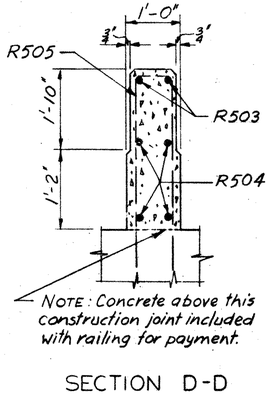












NOTES

POROUS BACKFILL shall extend up to the underside of the approach slab and surface of earth shoulders, and outward to the surface of embankment slopes.

CLEARANCE from face of concrete to reinforcing steel shall be 2" unless otherwise shown.

CONCRETE shall be Class "E" and payment will be made on this basis, but Class "C" concrete may be used for any or all parts of the abutment.

PROCEDURE: The embankment shall be placed and compacted to the height of the earth bench, after which excavation shall be made for the abutment.

INITIAL SUBMISSION DATE 9-17-86				FINAL APPROVAL DATE
REVISED		APPROVED		
9-26-86				

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

EAST ABUTMENT DETAILS

BRIDGE No. AUG-25-1234
NATIONAL ROAD OVER U.S.R. 25
AUGLAIZE COUNTY U.S.R. 25
STA. 697+93.33

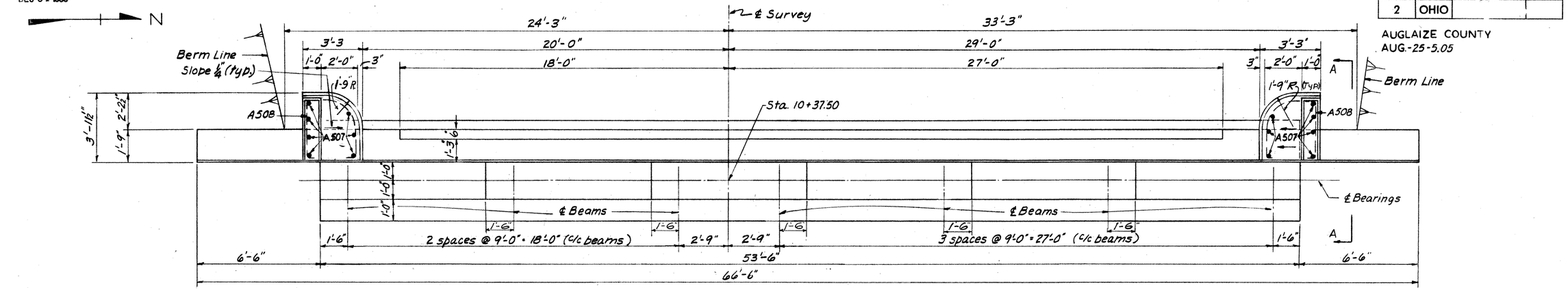
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
AWP	B.E.		RWM	AK		

MICROFILMED
DEC 31 1986

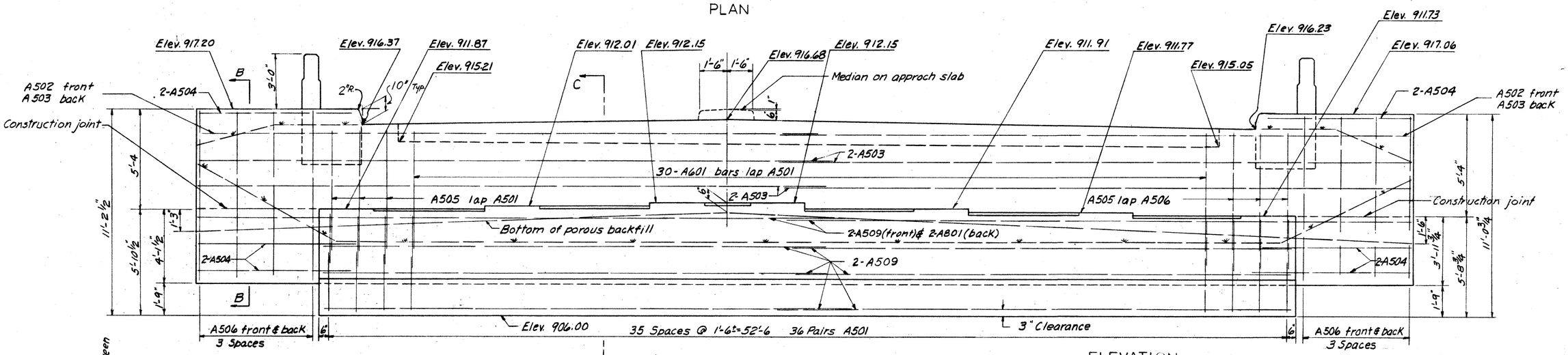
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

431/466

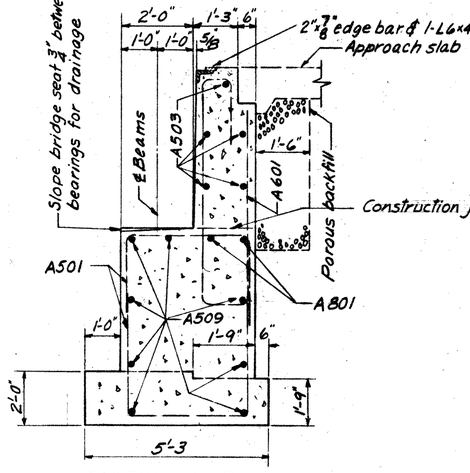
AUGLAIZE COUNTY
AUG.-25-5.05



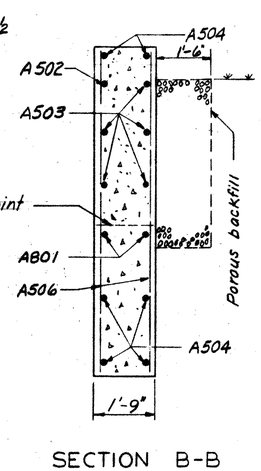
PLAN



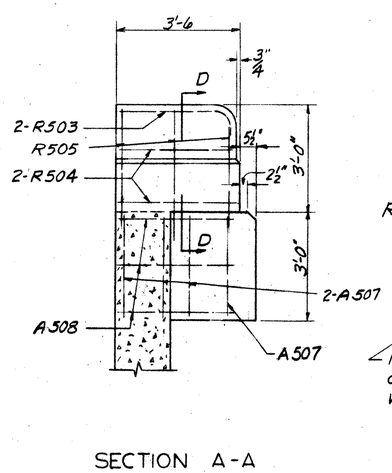
ELEVATION



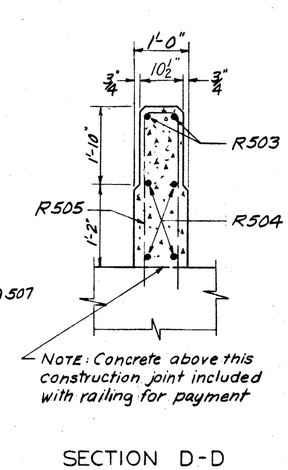
SECTION C-C



SECTION B-B



SECTION A-A



SECTION D-D

NOTE: Concrete above this construction joint included with railing for payment

NOTES

POROUS BACKFILL shall extend upward to the approach slab and surface of of earth shoulders and outward to the surface of embankment slopes

CLEARANCE from face of concrete to reinforcing steel shall be 2" unless otherwise shown.

CONCRETE shall be Class "E" and payment will be made on this basis but Class "C" concrete may be used for any or all parts of the abutment.

PROCEDURE: The embankment shall be placed and compacted to height of the earth bench, after which excavation shall be made for the abutment.

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

WEST ABUTMENT DETAILS
BRIDGE No. AUG-25-1234
NATIONAL ROAD OVER USR 25
AUGLAIZE COUNTY USR 25
STA 697+9333

Initial Submission Date 9-17-56		Final Approval Date
Revised	Approved	
9-26-56		

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RWP	E.C. RA		RWM	HK		

MICROFILMED
DEC 31 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

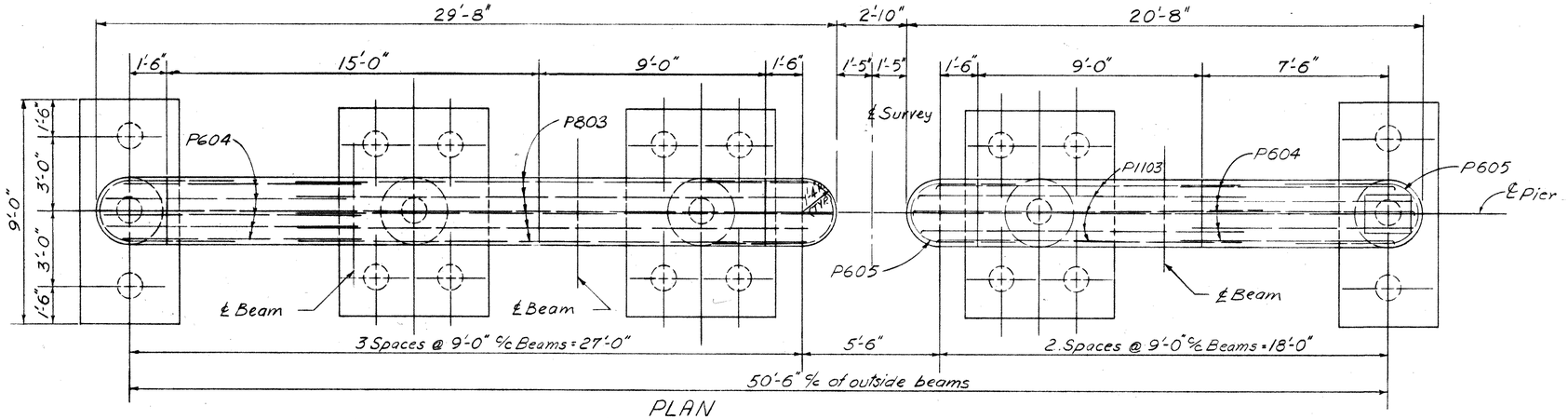
432
466

AUGLAIZE COUNTY
AUG-25-5.05

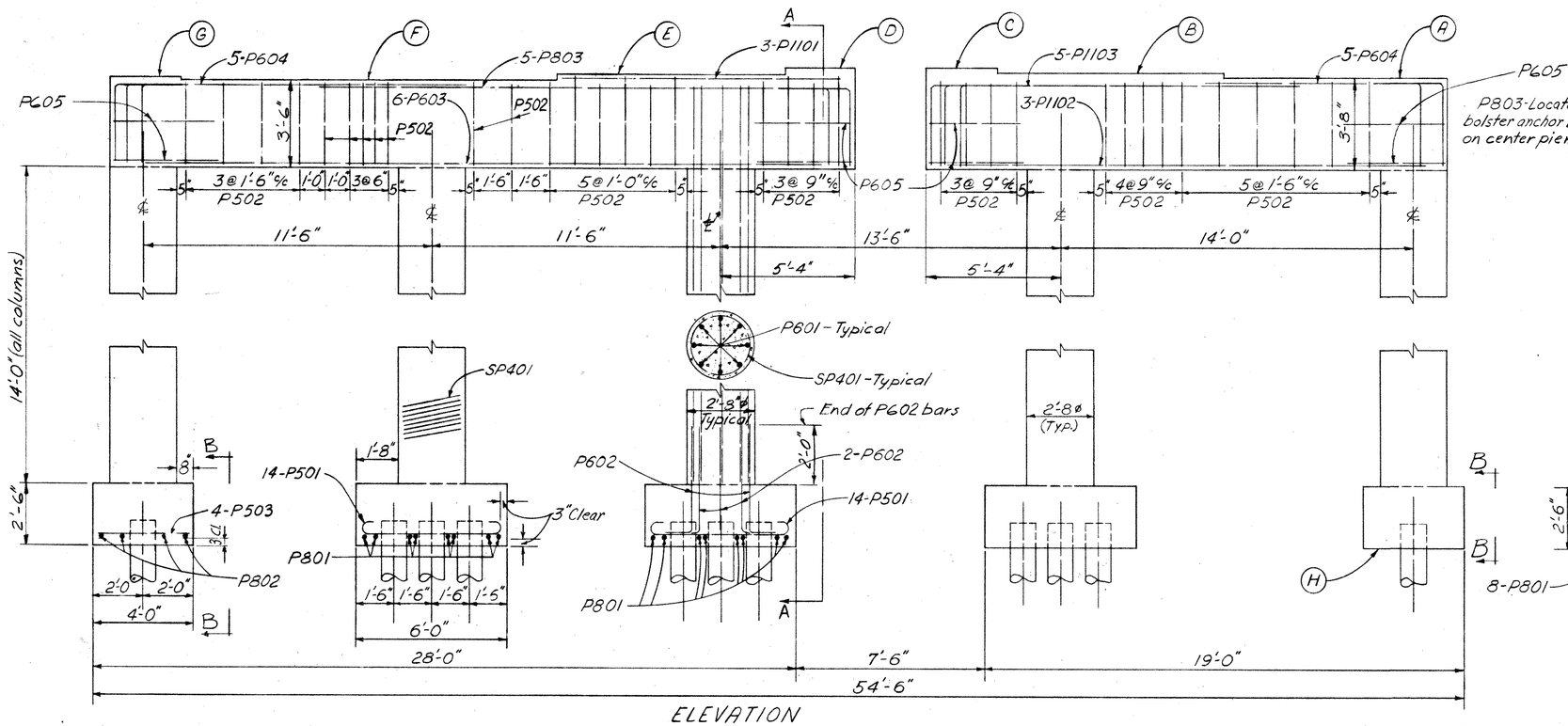
NOTES

REINFORCING STEEL shall be 2" clear from face of concrete unless otherwise shown.
CONCRETE shall be Class "C" for pier caps and columns and Class "E" for footings.

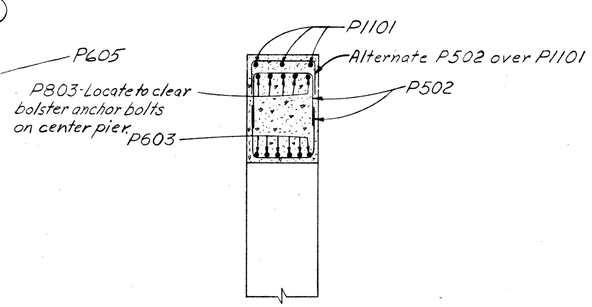
Locate bars to clear anchor bolts at center pier only.
Locate P604 bars on periphery of P601 bars and wire together.

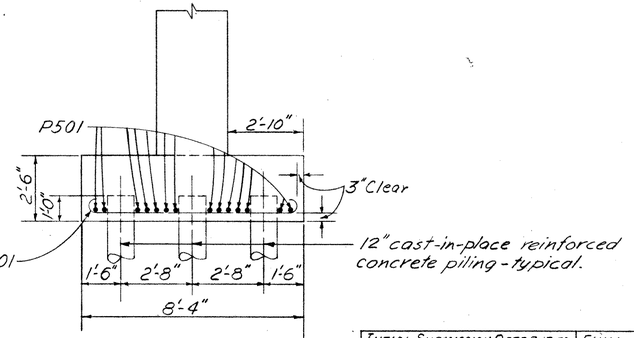


PLAN



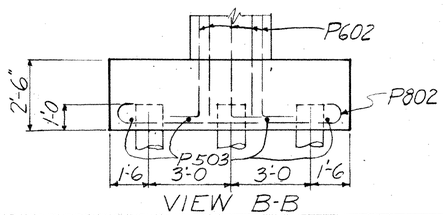
ELEVATION





SECTION A-A

	ELEVATIONS							
	A	B	C	D	E	F	G	H
Rear Pier	911.96	912.10	912.24	912.24	911.93	911.79	911.82	891.79
Center Pier	912.14	912.28	912.42	912.41	912.11	911.97	911.99	891.97
Forward Pier	911.90	912.04	912.18	912.18	911.87	911.73	911.76	891.73



VIEW B-B

INTIAL SUBMISSION DATE 9-17-56		FINAL APPROVAL DATE
REVISED	APPROVED	
9-26-56		
10-8-56		

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

PIER DETAILS

BRIDGE NO. AUG-25-1234
NATIONAL ROAD OVER U.S.R. 25
AUGLAIZE COUNTY U.S.R. 25
STA. 697+93.33

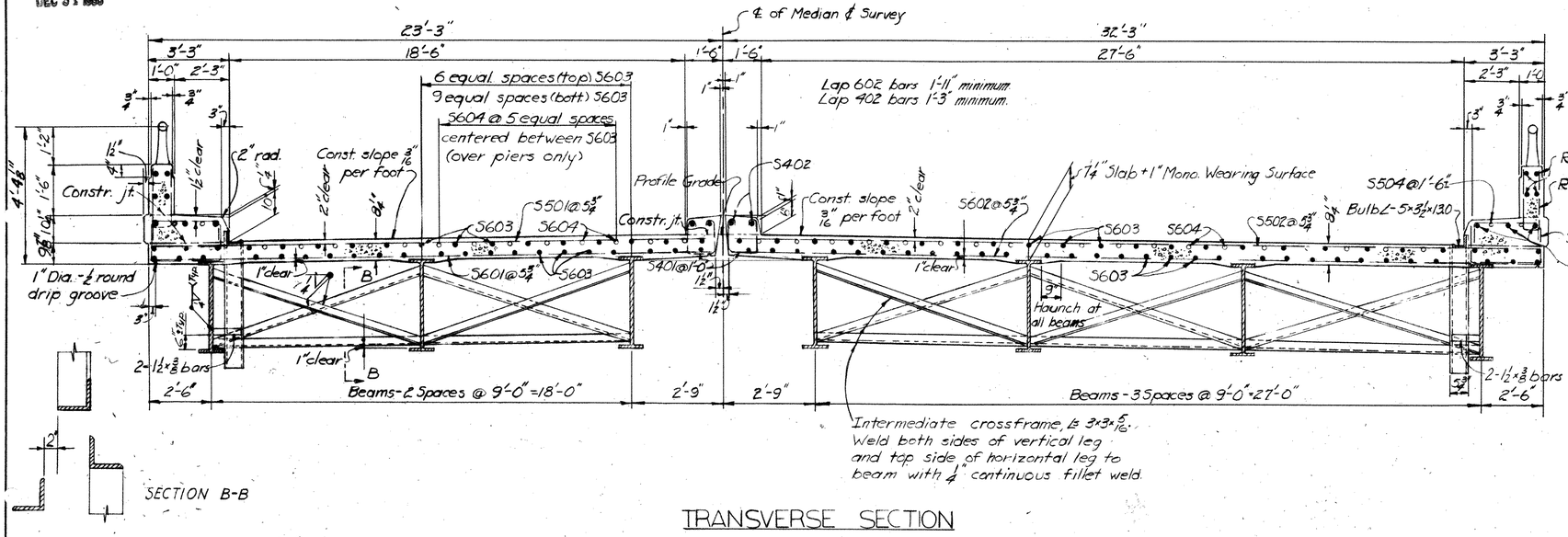
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RWM	J.E.S.					

MICROFILMED
DEC 31 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

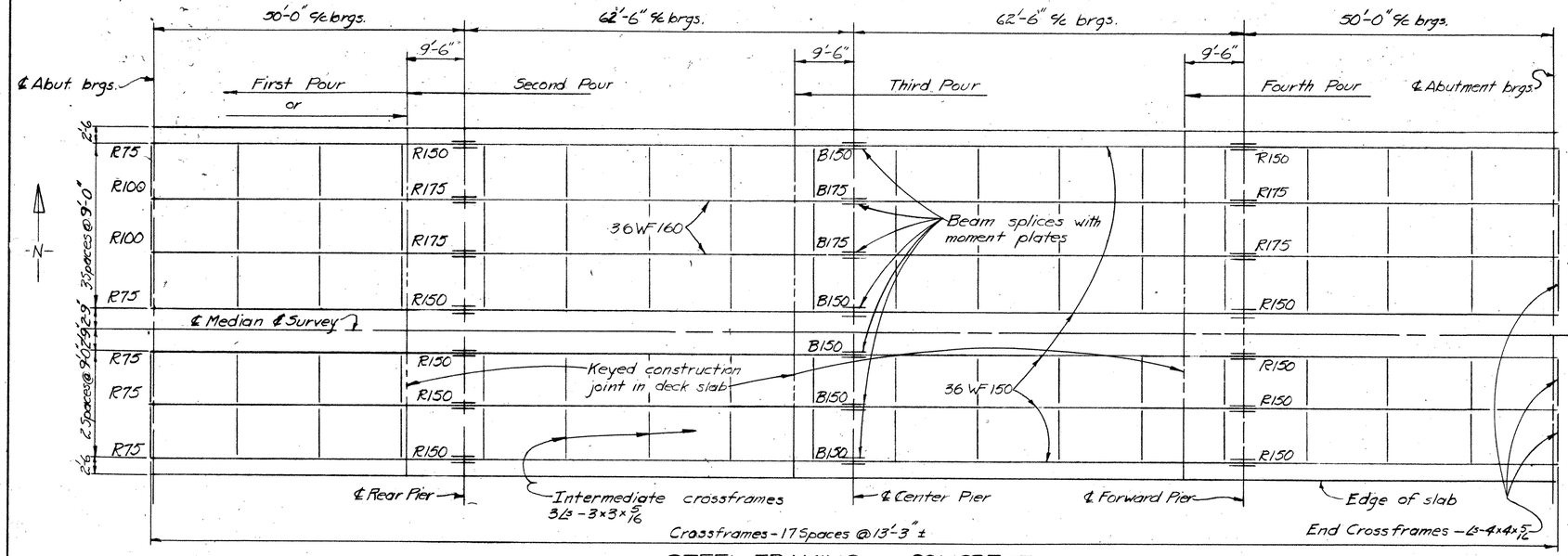
433
466

AUGLAIZE COUNTY
AUG-25-5.05

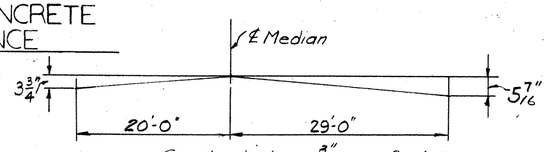


SECTION B-B

TRANSVERSE SECTION



STEEL FRAMING AND CONCRETE POURING SEQUENCE



BRIDGE SLAB CROWN

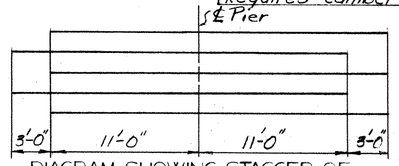
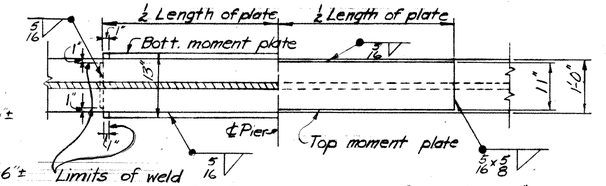
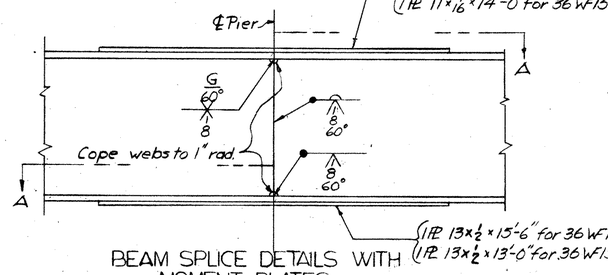


DIAGRAM SHOWING STAGGER OF S604 BARS OVER PIERS





BEAM SPLICE DETAILS WITH MOMENT PLATES

BEAM SPLICE WELDING PROCEDURE:

1. Raise end of beam at center pier 1".
2. At rear pier butt weld the beam flanges & web using the following sequence; make one pass one each flange, then one on the web; repeat until welds are completed.
3. Weld top and bottom flange moment plates at first pier.
4. Lower end of beam at center pier.
5. Make splice at center and forward piers in the same manner raising the R75 end of the beams 1" at the forward pier and at the forward abutment 5/8".

DECK CONSTRUCTION PROCEDURE: The deck slab shall be placed in sections, between transverse construction joints, in the numerical order and in the direction indicated on the "Steel Framing and Concrete Pouring Sequence", in order that the major portion of the dead load deflection may occur prior to placing concrete over each pier.

FOR ROCKER AND BOLSTER DETAILS: See Standard Drawing RB-1-55.

CONCRETE above safety curb construction joint is included with railing for payment.

NOTE: For details of end crossframes, end finish, curb plates, aluminum railing posts, beam cut-off at backwall, and welded butt joint in superstructure end finish angles at centerline of roadway see Sheets (366 & 367) 376 & 377 RHR

DEFLECTION AND CAMBER

LOCATION	Outside Beams 50'-0 span	Outside Beams 62'-6 span	Inside Beams 50'-0 span	Inside Beams 62'-6 span
Deflection due to weight of steel	1"	1"	1"	1"
Deflection due to remaining dead load	1/16"	1/16"	1/16"	1/16"
Convexity required for vertical curve	3/16"	4/16"	3/16"	3/16"
Sum of deflection & convexity	3/16"	5/16"	3/16"	1/16"
Required camber	0"	1"	0"	1/16"

INITIAL SUBMISSION DATE 9-17-56			FINAL APPROVAL DATE
REVISED	APPROVED		
9-26-56			
10-8-56			

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

SUPERSTRUCTURE DETAILS
BRIDGE NO.-25-1234
NATIONAL ROAD OVER USR 25

AUGLAIZE CO. USR 25
STA 697+93.33

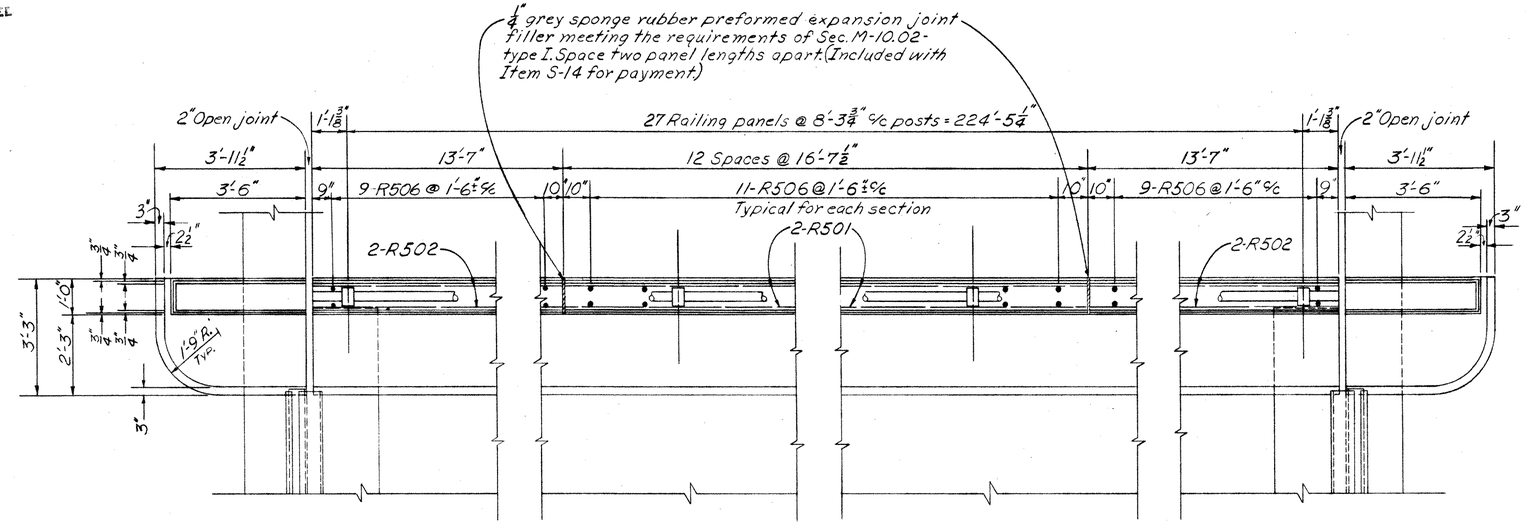
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
RWP	FEE		RWM	AK		

MICROFILMED
DEC 31 1986

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

434
466

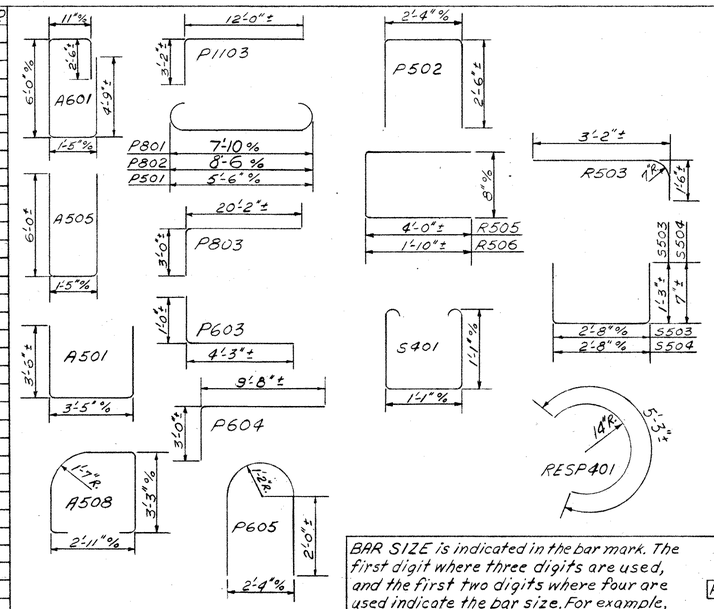
AUGLAIZE COUNTY
AUG-25-5.05



PLAN
PARAPET WALL DETAILS

REINFORCING STEEL LIST

MARK	NO.	LENGTH	WEIGHT	SHP
ABUTMENTS				
A801	8	34'-4"	773	S
A601	60	15'-0"	1352	B
A501	144	10'-3"	1539	B
A502	4	10'-6"	44	S
A503	20	34'-3"	714	S
A504	24	8'-0"	200	S
A505	12	13'-3"	166	B
A506	32	8'-8"	289	S
A507	28	2'-8"	78	S
A508	12	10'-0"	125	B
A509	32	27'-9"	926	S
PIERS				
P1101	9	10'-0"	478	S
P1102	9	18'-0"	861	S
P1103	15	14'-10"	1182	B
P801	72	10'-0"	1922	B
P802	24	10'-8"	683	B
P803	15	22'-11"	918	B
P601	120	17'-3"	3109	S
P602	120	5'-1"	917	B
P603	18	27'-0"	730	S
P604	30	12'-6"	563	B
P605	24	7'-6"	270	B
P501	126	6'-8"	876	B
P502	210	7'-0"	1533	B
P503	24	3'-6"	88	S



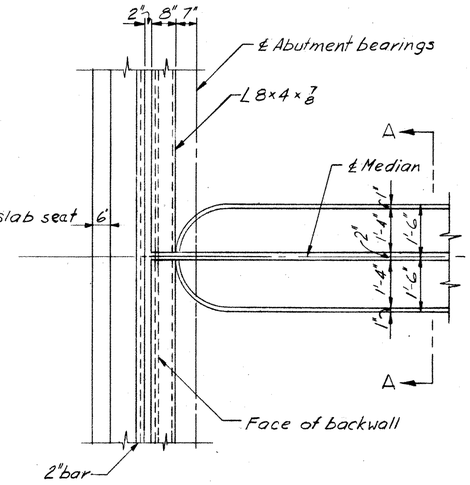
*Included with Item S-14 for payment.

MARK	NO.	LENGTH	WEIGHT	SHP
SUPERSTRUCTURE				
S601	453	22'-9"	15479	S
S602	453	31'-9"	21603	S
S603	679	33'-10"	34514	S
S604	108	25'-0"	4055	S
S501	453	22'-9"	10749	S
S502	453	31'-9"	15000	S
S503	302	4'-11"	1549	B
S504	302	3'-7"	1129	B
S401	453	3'-11"	1187	B
S402	28	33'-4"	624	S
RAILING				
R501	96	16'-3"	*	S
R502	16	13'-3"	*	S
R503	8	4'-5"	*	B
R504	16	3'-2"	*	S
R505	12	8'-5"	*	B
R506	300	4'-1"	*	B
REPLACEMENT BARS				
RE1101	1	7'-7"	40	S
RE801	1	6'-6"	17	S
RE601	5	5'-11"	45	S
RE501	2	5'-7"	12	S
RE401	1	5'-3"	4	S
RESP401	1	5'-3"	4	B

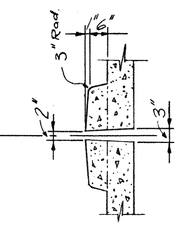
BAR SIZE is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four are used indicate the bar size. For example, P801 is a No.8 size bar & P1001 is a No.10 size.

SPIRAL REINFORCING BARS:
The "Length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap.
The "No of Turns" shown in the steel list for the spiral bar is the "Length" divided by the "Pitch, plus 3 turns (total number of closed coils), expressed as the nearest whole number.
½ closed coils shall be provided at the ends of each spiral unit.
Three steel channel, tee or angle spacers weighing approximately 0.68 lbs. per lin. ft. of spacer shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The weight of these spacers based on 0.68 lbs. per lin. ft. will be paid as reinforcing steel and is included in the tabulated quantity of spiral bars.

SPIRAL REINFORCING LIST						
MARK	NO.	CORE DIA. to SPIRAL	LENGTH	PITCH	NO. TURNS	WEIGHT
SP401	15	28"	14'-0"±	4½"	40	3315



MEDIAN DETAIL AT ABUTMENT



SECTION A-A

INTIAL SUBMISSION DATE 9-17-56		FINAL APPROVAL DATE
REVISED	APPROVED	
9-26-56		

VARO ENGINEERS
COLUMBUS and NEWARK, OHIO

SUPERSTRUCTURE DETAILS AND REINFORCING STEEL LIST
BRIDGE NO. AUG-25-1234
NATIONAL ROAD OVER U.S.R. 25
AUGLAIZE COUNTY U.S.R. 25
STA. 697+93.33

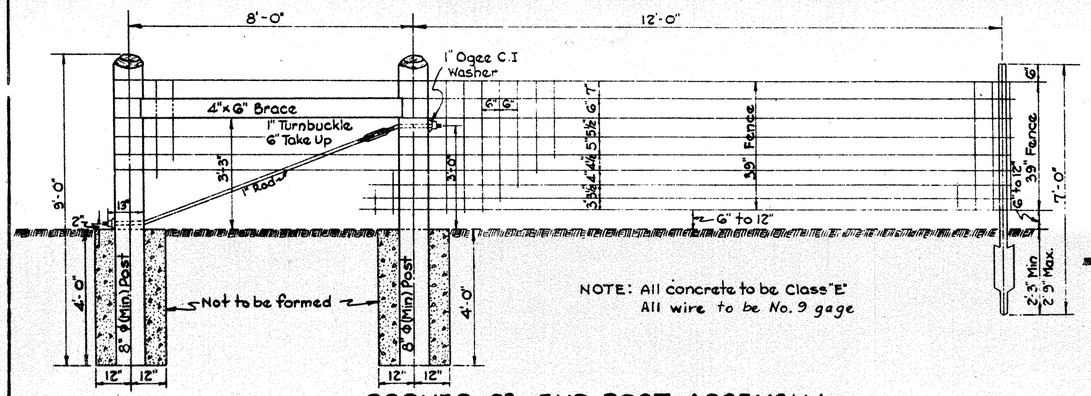
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
AWB	J.E.S.		RWM	HAK		

TYPE "A" FENCE DETAIL

FED. RD DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

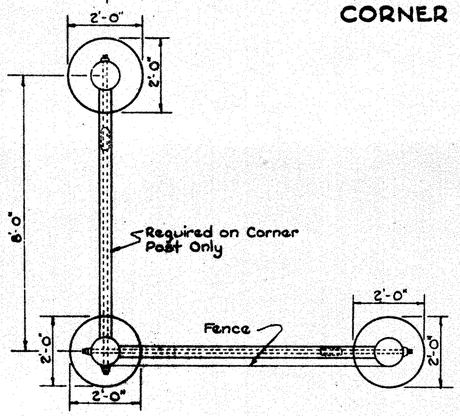
455 / 466

AUGLAIZE COUNTY
AUG-25-5.05

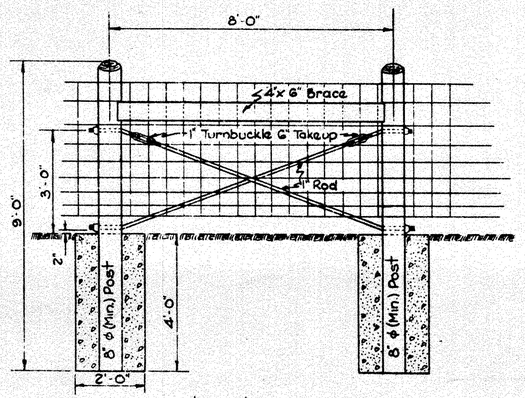


NOTE: All concrete to be Class "E"
All wire to be No. 9 gage

CORNER OR END POST ASSEMBLY

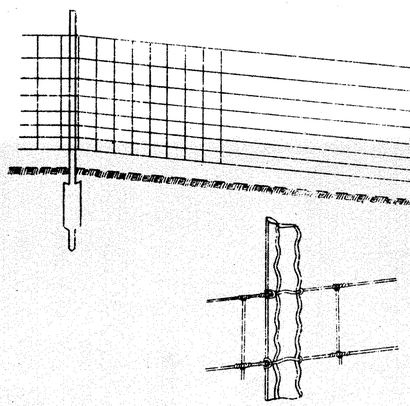


PLAN OF CORNER OR END POST ASSEMBLY



To be placed at locations shown on Plan or shifted if directed by the Engineer.

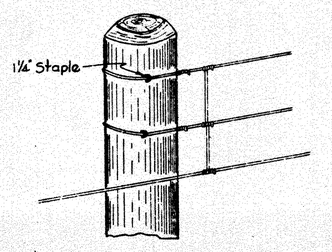
INTERMEDIATE ANCHOR POST ASSEMBLY



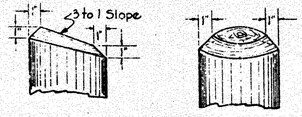
METHOD OF FASTENING FENCE AT LINE POST

LINE POST IN DIP SECTION

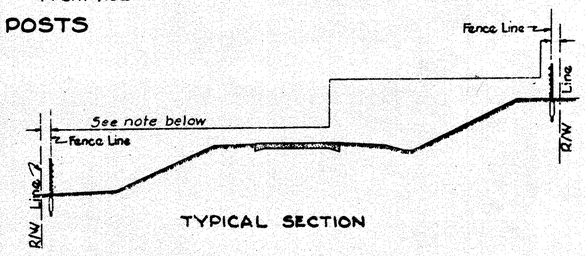
SPLICE DETAIL



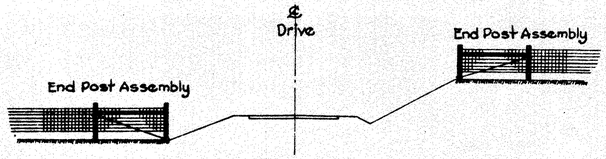
METHOD OF FASTENING FENCE AT END, CORNER POST AND ONE POST OF INTERMEDIATE ANCHOR POST ASSEMBLY



TOP OF POSTS



TYPICAL SECTION



R/W FENCE TREATMENT AT DRIVES



R/W FENCE TREATMENT AT CULVERTS

Notes:

Maximum spacing between intermediate anchor post assemblies or between end post assemblies and intermediate post assemblies shall be 660 Lin. Ft.

At points where individual spans of fence change alignment in excess of 4 degrees and less than 30 degrees, an intermediate anchor post assembly shall be built. If the change in alignment is 30 degrees or more a corner post assembly shall be built at the point of change.

In lieu of the requirement of Supplemental Specification No. 18 the End Posts, Corner Posts, and Intermediate Anchor Posts or Pull Posts shall be placed so that the side of the posts toward the highway is two feet from the Right-of-Way line.

REV. 7-26-56

TYPE "A" FENCE DETAIL