FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	S-1357(1)	

1/211

ADAMS COUNTY
ADA-247-(8.95) (14.20)

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

S-1357 (1)

JUN12 1963
GROUND PHOTOLAB

ADA-247-(8.95) (14.20)

OLIVER, TIFFIN & WAYNE TOWNSHIPS

ADAMS COUNTY

CONVENTIONAL SIGNS

State Line
County Line
Township Line
Section Line
Center Line
Corporation Line
Fence Line
Guard Rail (existing)
Guard Rail (proposed)
Steam Railroad
Power Poles
Telephone Poles
Trees or Stumps (existing)
Trees or Stumps (to be removed)

INDEX OF SHEETS

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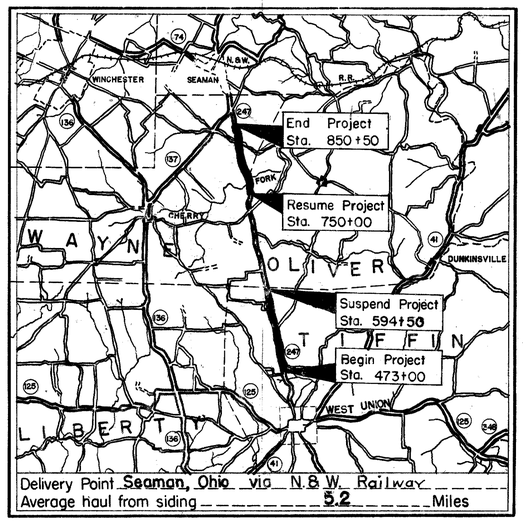


LOCATION MAP

SCALE OF MILES

1 0 1 2 3 4 5 6 7

Portion to be improved
State Roads
Other Roads

SCALE

Plan 1" = 50'
Profile: Horizontal 1" = 50'
Profile: Vertical 1" = 5' & 10'

LINE DATA

Begin Project	Sta. 473+00		
Suspend Project	Sta. 594+50		
	12,150	Lin. Ft.	
Resume Project	Sta. 750+00		
End Project	Sta. 850+50		
	10,050	Lin. Ft.	
Net Length of Project	22,200	Lin. Ft. or	4.204 Miles

Add for Approaches

Sta. 472+34	to	Sta. 473+00 =	66	Lin. Ft.
Sta. 594+50	to	Sta. 597+00 =	250	Lin. Ft.
Sta. 749+50	to	Sta. 750+00 =	50	Lin. Ft.
Sta. 850+50	to	Sta. 851+00 =	50	Lin. Ft.
Co.Rd. No. 1	Lt. & Rt. ℄	833+89 =	545	Lin. Ft.
Net Length of Work			23,161	Lin. Ft.
		or	4.386	Miles

1961 SPECIFICATIONS

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

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

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

Approved R. Lyman Barkdoll
Date 2-7-1961 Division Deputy Director

Approved Ray E. Neyhart
Date 5-23-61 Deputy Director of Planning & Programming

Approved D.H. Abramson
Date 5-4-61 Engineer of Bridges

Approved W. J. Cremean
Date 5-16-61 Engineer of Location & Design

Approved C.W. McCarley
Date 5-16-61 Deputy Director of Design & Construction

Approved W.J. Enos
Date 5-8-61 Deputy Director of Right-of-Way

Approved H.A. Berry
Date 5-24-61 First Assistant Director

Approved E.S. Preston
Date 5-24-61 Director of Highways

File No.		
	Adams County	ADA-247-(8.95) (14.20)
	Date of Letting	19
	Contract No.	

Supplemental Prints of Standard Construction Drawings					
DR-1	1-3-55	HW-E	11-15-60	I-14G	1-22-52
G-7.07	6-1-56	I-1	11-15-60	I-8 C.B 23 & 24,	1-26-59
T-35	1-2-56	I-15 M1	11-15-60		
L-1	4-1-50	I-15 M2A	8-17-60		
L-3	4-1-50	I-15 M4	12-1-54	C.S.B. I-55, Sheets 1,	
L-3-A	4-1-50	AS-1-54	12-1-54	2 & 6 of 8,	2-2-59
RI-1	7-15-58	SP-53	11-25-58		

Supplemental Specifications
None

JUN12 1963
GROUND PHOTOLAB

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED:

DIVISION ENGINEER — DATE

SCHEMATIC PLAN

SCALE 1" = 400'

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

2

ADAMS COUNTY

ADA-247-(8.95)(14.20)

EXISTING BRIDGE DATA

Bridge No.	ADA-247-0038
Type	Steel Beam
Span	101'-2"
Roadway	18'-5"
Condition	Good
Reduction	None
Skew	18° R.F.
Loading	SK5.0
Ht. Gr. to Ft.	7.6'
Suff. Rating	77

PROPOSED STRUCTURE
106"x 68"x 90' Reinf. Ellip. Concrete Pipe

BEGIN WORK STA-472+34

BEGIN PROJ. STA-473+00 S.L.M. 8.95

S-1357 (1)

Match Line

N-4°33'45"-W

N-5°26'15"-W

To West Union

PC 492+02.37

Ex. Bridge No. ADA-247-0038

Ex. Trav. S.R. 247

LICK CREEK

N-8°33'45"-W

N-8°-W

Match Line

Prop. Connection Town Rd. 200

CURVE DATA
PI = 454+10.77
Δ = 3°07'30" Lt.
Dc = 0°45'
T = 205.40'
E = 2.84'
L = 416.67'
R = 7,639.45'

SPIRAL DATA
Δ = 10°03'30" Lt.
Dc = 3°00'
Ts = 268.15'
Es = 8.29'
Ls = 200'
Xc = 199.95'
Yc = 3.49'
Θs = 3.0°
P.I Sta. 753+69.15

CURVE DATA
Δ = 4°03'30"
L = 135.28'
R = 1909.86

RESUME WORK STA-749+50

RESUME PROJECT STA. 750+00 S.L.M. 14.20

To West Union

Future Prop. ℄ N 3° 40' E.

Prop. ℄ S.R. 247 N. 6°17'30" W.

T.S. Sta 751+01.00
S.C. Sta 753+01.00
C.S. Sta 754+36.88
S.T. Sta 756+36.88

Ex. Trav. S.R. 247

CHEEKY FORK

T.S. Sta 780+78.92
S.C. Sta 782+78.92
C.S. Sta 785+49.00
S.T. Sta 787+68.00

N. 84°58'15" W.

MARTINS RUN

T.S. Sta 800+54.15
S.C. Sta 802+54.15
C.S. Sta 805+01.81
S.T. Sta 807+01.81

SPIRAL DATA
Δ = 18°11'15" Rt.
Dc = 4°00'
Ls = 200'
Ts = 329.44'
Es = 19.23'
Yc = 4.65'
Xc = 199.90'
Θs = 4.0°
P.I. Sta 803+83.59

CURVE DATA
Δ = 10°11'15"
L = 254.60'
R = 1432.40'

SPIRAL DATA
PI = 517+81.74
Δ = 13°31' Rt.
Dc = 4°00'
Ts = 346.54'
Ls = 200'
Yc = 4.65'
Xc = 199.90'
Θs = 4.0°
Es = 22.23'

CURVE DATA
Δ = 11°31'
L = 287.02'
R = 1,432.40'

SPIRAL DATA
Δ = 18°40' 45" Lt.
Dc = 4°00'
Ls = 200'
Ts = 335.75'
Es = 20.52'
Xc = 199.90'
Yc = 4.65'
Θs = 4.0°
P.I. = 784+12.67

CURVE DATA
Δ = 10°40'45"
L = 266.98'
R = 1432.40'

SPIRAL DATA
PI = 525+11.65
Δ = 15°32'45" Lt.
Dc = 4°00'
Ls = 200'
Ts = 346.51'
Es = 22.30'
Yc = 4.65'
Xc = 199.90'
Θs = 4.0°

CURVE DATA
Δ = 11°32'45"
Dc = 4°00'
L = 288.65'
R = 1,432.40'

T.S. 524+64.34
S.C. 526+64.34
C.S. 529+52.99
S.T. 531+52.99

Ex. Trav. S.R. 247

Prop Connection

T.S. 544+35.20
S.C. 546+35.20
C.S. 549+23.86
S.T. 551+23.86

L Prop. ℄ S.R. 247

N-1°31'-E

N-8°01'45"-W

Prop Connection

SPIRAL DATA
PI = 553+41.04
Δ = 5°25'30" Lt.
Dc = 3°00'
Ls = 200'
Ts = 256.04'
Es = 7.35'
Xc = 199.95'
Yc = 3.49'
Θs = 3.0°

CURVE DATA
Δ = 5°23'30"
L = 113.05'
R = 1,200.86'

T.S. 550+85
S.C. 552+85
C.S. 553+98.05
S.T. 555+98.05

Prop Connection

N-17°25'15"-W

Ex. Bridge No. ADA-247-1065

PROPOSED BRIDGE DATA
Type: Single span reinforced concrete slab with reinforced conc. wall abutments
Span: 28'-0" f/f abutments.
Roadway: 34'-0" f/f guardrails
Load Frequency: CF-130(57)
Skew: 26°30' L.F.
Wearing Surface: ¾" Monolithic conc.
Approach Slabs. AS-1-54 (25' long)
Alignment: Tangent

T.S. 582+31.35
S.C. 584+31.35
C.S. 585+83.43
S.T. 587+83.43

T.S. 571+80.84
S.C. 574+80.84
C.S. 578+28.42
S.T. 580+28.42

N-6°40'-E

N-6°24'-W

To Seaman

Future Prop. ℄

Prop Connection

SPIRAL DATA
PI = 576+63.08
Δ = 21°31' Rt.
Dc = 4°00'
Ls = 200'
Ts = 373.24'
Es = 27.0'
Xc = 199.90'
Yc = 4.65'
Θs = 4.0°

CURVE DATA
Δ = 13°35'
L = 330.58'
R = 1,432.40'

SPIRAL DATA
PI = 558+07.96
Δ = 10°33'45" Lt.
Dc = 3°00'
Ls = 200'
Ts = 270.61'
Es = 9.04'
Xc = 199.95'
Yc = 3.49'
Θs = 3.0°

CURVE DATA
Δ = 4°53'45"
L = 152.08'
R = 1,988.86'

CURVE DATA
PI = 533+08.20
Δ = 2°36' Lt.
Dc = 1°00'
T = 130.02'
E = 1.47'
L = 260.00'
R = 5,729.58'

PC 591+78.18
PT 594+38.18

SUSPEND PROJ. STA-534+50 S.L.M. 11.25

SUSPEND WORK STA-537+00

S-1357 (1)

END PROJECT STA. 850+50 S.L.M. 16.10

N. 6°47'-W.

To Seaman

Drop Approach County Road No 1

Drop Approach County Road No 1

BEARS RUN

Prop Connection

END WORK STA. 851+00

EXIST. BRIDGE DATA

Bridge Nº	ADA-247-1471
Type	C.I.P.
Span	4-24"x 40'
Roadway	18'
Skew	30° R.F.

PROPOSED BRIDGE DATA

Type: Continous steel beams with reinf. conc deck & reinf. conc. substructure
Span: 44'-55'-44' ℄ brgs.
Roadway: 36'-0" f/f guard rails
LOAD FREQUENCY: CF = 130 (57)
Skew: 30° R.F.
Wearing Surface: ¾" Monolithic conc.
Approach Slab: AS-1-54 (25' long)
Alignment: Tangent

EXIST. BRIDGE DATA

Bridge Nº	ADA-247-1518
Type	C.I.P.
Span	2-24"x 40'
Roadway	17'
Skew	16° L.F.

PROPOSED BRIDGE DATA

Type: Continous steel beam with reinf. conc. deck & reinf. conc. substruct.
Span: 34'-42.5'-34' ℄ brgs.
Roadway: 36'-0" f/f guard rails
Load Frequency: CF = 130 (57)
Skew: 35° L.F.
Wearing Surface: ¾" monolithic conc.
Approach Slabs: AS-1-54 (25' long).
Alignment: Tangent

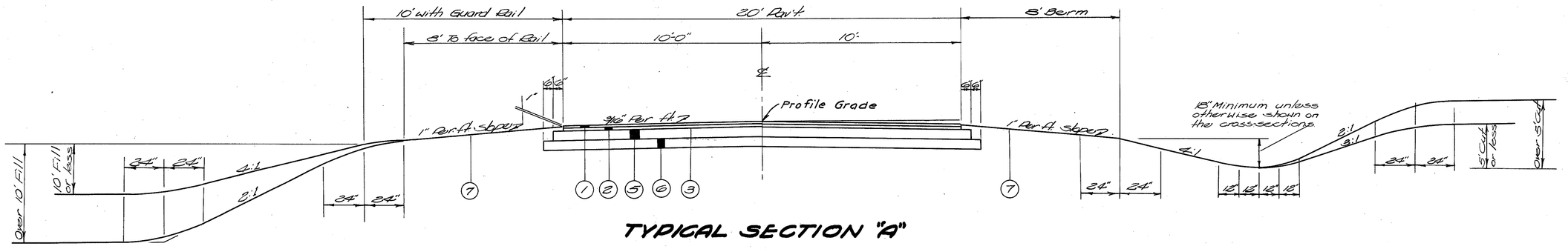
SCHEMATIC PLAN

TYPICAL SECTIONS

FED. RD. DIVISION	STATE	PROJECT		3
2	OHIO			

ADAMS COUNTY
ADA-247-(8.95)(14.20)

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



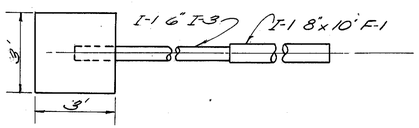
TYPICAL SECTION "A"

The above Typical Section applies between the following stations:

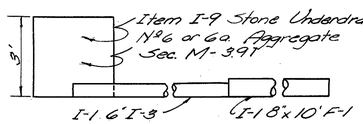
Sta	489+50	to	Sta	499+00	950.00 Lin. Ft.
Sta	512+00	to	Sta	561+77.35	4977.35 Lin. Ft.
Sta	562+58.15	to	Sta	594+50	3191.85 Lin. Ft.
Sta	750+00	to	Sta	775+63.40	2563.40 Lin. Ft.
Sta	777+61.60	to	Sta	831+21.00	5359.40 Lin. Ft.
Sta	832+87.00	to	Sta	850+50	1763.00 Lin. Ft.
Total length of Typical Section "A"					18,805.00 Lin. Ft. 3.56 MILES.

BRIDGES & APPROACH SLABS			
775+63.40	-	777+61.60	- 198.2'
831+21.00	-	832+87.00	- 166.0'
561+77.35	-	562+58.15	- 80.8'

DETAIL OF SPRING DRAIN

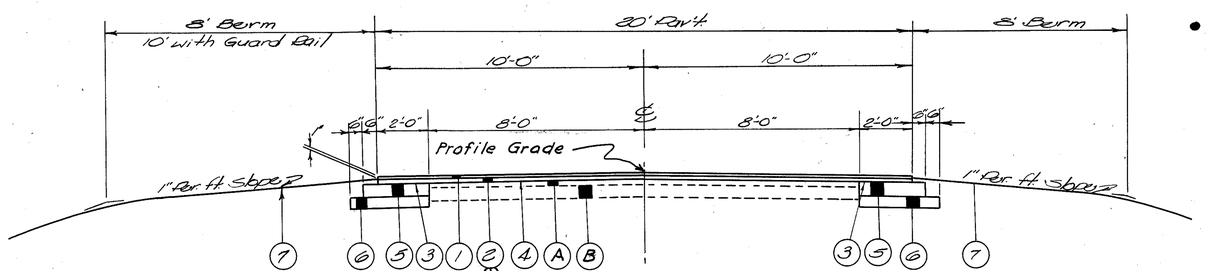


PLAN



SECTION

NOTE:
Unit price bid per Lin. Ft. of Item I-9 Stone Underdrain No 1 shall include the necessary excavation, and placing of Aggregate.



TYPICAL SECTION "B"

The above typical applies between the following stations:

Sta. 473+00	to	Sta. 489+50	1650	Lin. Ft.
Sta. 499+00	to	Sta. 512+00	1300	Lin. Ft.
Total Length of Typical Section "B"			2950	Lin. Ft. .56 MILES

⊕ 1¾" Average Thickness in Typical Section "B"

- Thicknesses shown are "designed" thicknesses as described in Section T-35.01 and Section B-35.01.

*Note: Sec. M-5.7, RT-2 or RT-3
**Note: Sec. M-5.5 M3-2 or RS-1 or Sec. M-5.2 RC-1 or RC-2, as per Sec. T-30.02

LEGEND

- (1) • 1¼" T-35 Asphaltic Concrete Surface Course, Type "C" (85-100)
- ⊕(2) • 1¾" B-35 Asphaltic Concrete Leveling Course (85-100)
- (3) T-30 Bituminous Prime Coat @ 0.4 gal. per S.Y.*
- (4) X T-30 Bituminous Tack Coat @ 0.1 Gal per S.Y., **
- (5) 6" B-10 Aggregate Base Course
- (6) 6" I-22 Subbase
- (7) L-9 Seeding and Protecting
- (A) X Existing 2" Bituminous Surface
- (B) X Existing 6" Traffic Bound Base

TYPICAL DETAILS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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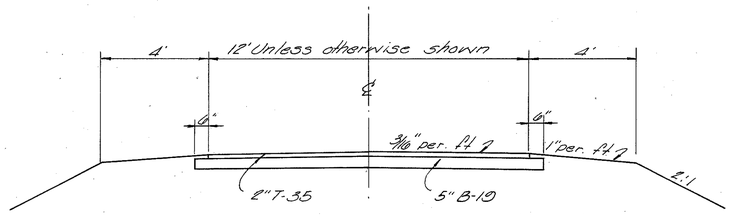
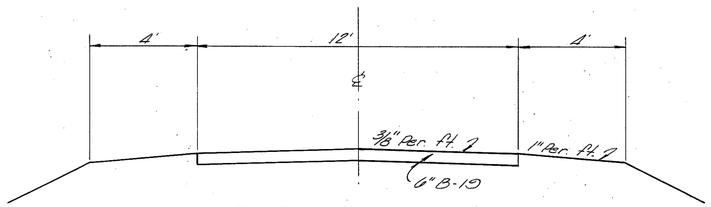
ADAMS COUNTY
ADA-247(8.95)(14.20)

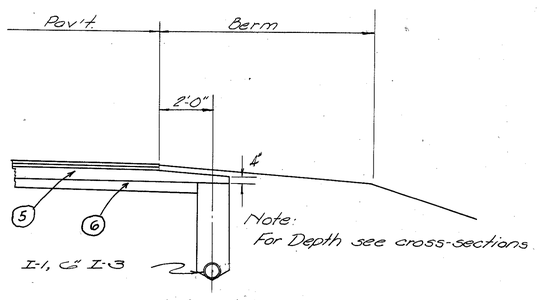


TYPICAL SECTION OF RESIDENCE DRIVE



TYPICAL SECTION OF FIELD DRIVE

Note:
Residence drives shall be constructed of 2" T-35 and 5" B-10 for the full length of the reconstructed driveway within the limits of the right-of-way.
The portion of the reconstructed driveway beyond the limits of the right-of-way shall consist of 8" B-10, unless otherwise shown in plans.



PART SECTION SHOWING I-1, 6" I-3

I-9 SCHEDULE - 14.20

Station Rt.	Station Lt.	Station Rt.	Station Lt.	Station Rt.	Station Lt.
		819+00	817+75		
		+50	818+25		
		820+00	+75		
			819+25		
	752+75		+75		
	753+25		820+25		
	+75	830+00			
	754+25	+50			
	+75	831+00			
	755+25	+50	829+75		
	+75	832+00	830+25		
	756+25	+50	+75		
	+75	833+00			
	757+25				
		841+50			
		842+00			
		842+50			
		843+00	841+25		
			+75		
768+00	767+25		842+25		
+50	+75		+75		
769+00	768+25				
+50	+75				
770+00	769+25				
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	+75				
800+00					
+50	799+25				
801+00	+75				
+50					
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803+00					
+50					
815+00					
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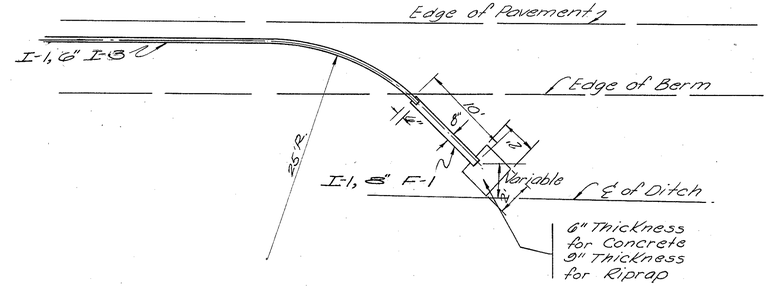
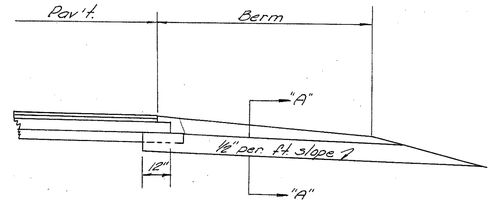
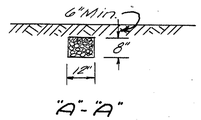


DETAIL OF I-1, 8"&10" F-1

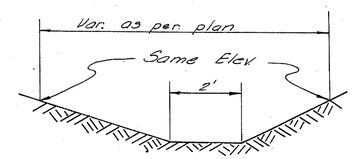
Note: Unit Price bid per Lin. Ft. of I-1 Class F-1 pipe shall include furnishing and placing concrete slab or riprap.



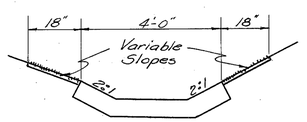
PART SECTION SHOWING I-9 STONE UNDERDRAIN No. 2



"A"-"A"



DETAIL OF SOD DITCH



DETAIL OF STANDARD PAVED GUTTER TYPE-1 WITH 18" SOD STRIPS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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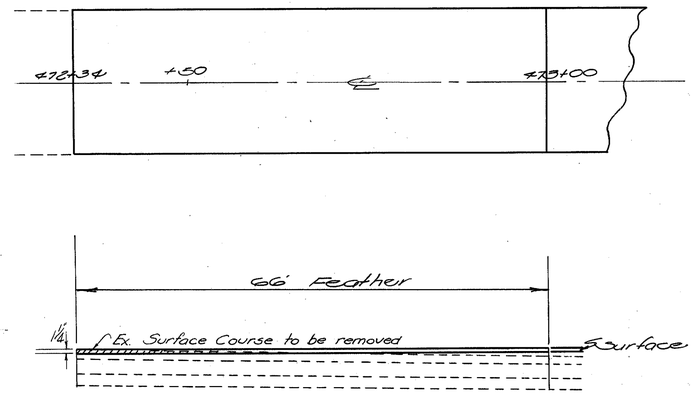
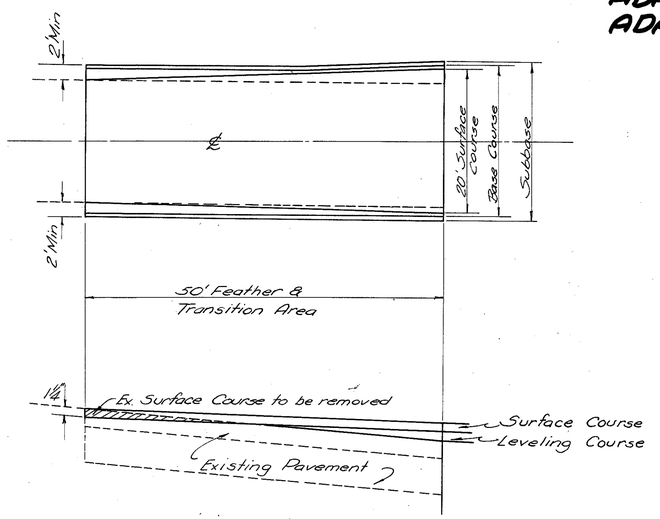
ADAMS COUNTY
ADA-247-(8.95)(14.20)



FEATHER & TRANSITION AREA

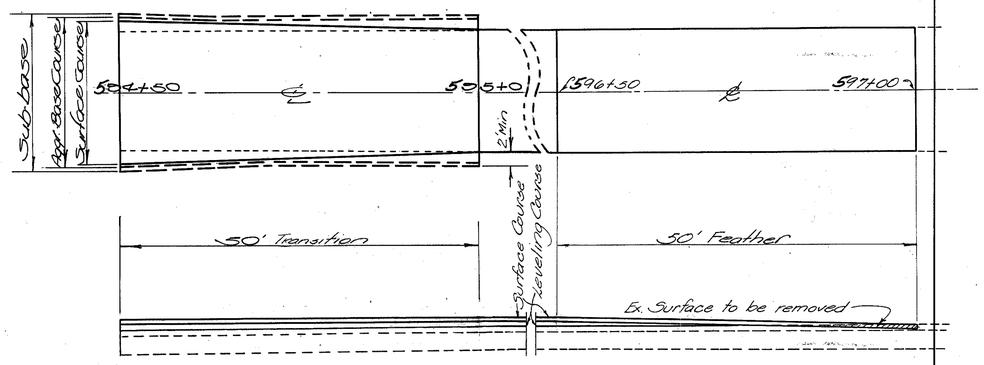
Scale: Horizontal 1"=10'
Vertical 1"= 2'

The above applies between the following:
Sta. 472+34 to Sta. 473+00



FEATHER AND TRANSITION AREA

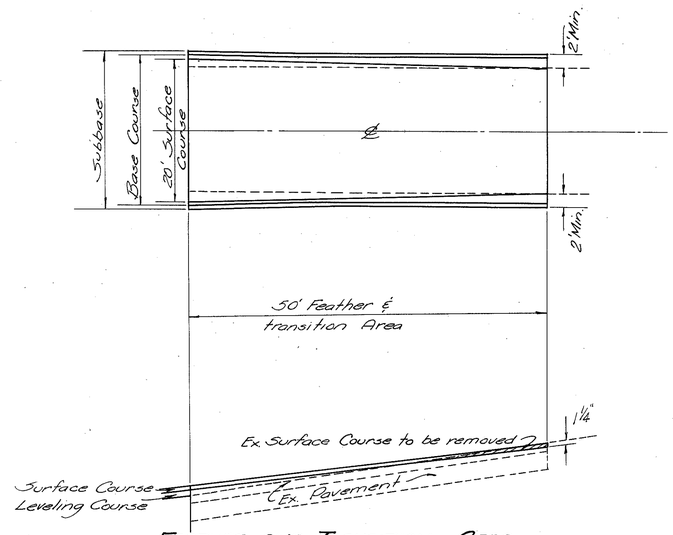
The above applies between the following Stations:
Sta 749+50 to Sta. 750+00
Scale: HORIZONTAL 1"= 10'
VERTICAL 1"= 1'



FEATHER & TRANSITION AREA

Scale: Horizontal 1"=10'
Vertical 1"= 2'

The above applies between the following: Sta 594+50 to Sta. 597+00



FEATHER AND TRANSITION AREA

The above applies between the following Stations
Sta. 850+50 to Sta. 851+00
Scale: HORIZONTAL 1"=10'
Vertical 1"= 2'

FEATHER AND TRANSITIONS AREAS

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NOTES

FIELD OFFICE

THE CONTRACTOR SHALL PROVIDE A SUITABLE FIELD OFFICE FOR THE EXCLUSIVE USE OF THE STATE EMPLOYEES, IN ACCORDANCE WITH SECTION S-0.01 (b), HAVING A MINIMUM OF 300 SQ. FT. OF FLOOR SPACE. THE CONTRACTOR SHALL HAVE A TELEPHONE INSTALLED AND MAINTAINED IN THE FIELD OFFICE DURING THE CONSTRUCTION OF THIS PROJECT.

CONTRACTOR SHALL ALSO INSTALL WIRING AND OUTLETS SUITABLE FOR CONNECTING THE ELECTRICAL OFFICE EQUIPMENT. HE SHALL PROVIDE 110 VOLT ALTERNATING CURRENT DURING THE CONSTRUCTION OF THIS PROJECT.

DESIGN SPEED

THE GEOMETRICS FOR THIS PROJECT HAVE BEEN PLANNED FOR A DESIGN SPEED OF 40 MILES PER HOUR.

SPECIAL DITCHES

FOR SPECIAL DITCH GRADES, SEE CROSS SECTIONS.

UTILITIES

THE CONTRACTOR SHALL NOTIFY AT LEAST 48 HOURS BEFORE BREAKING GROUND ALL PUBLIC SERVICE CORPORATIONS HAVING WIRE, 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.

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE STATE OF OHIO MAKES NO GUARANTEES AS TO THEIR ACCURACY OR COMPLETENESS.

ROUNDING OF CORNERS ON CROSS SECTIONS

THE ROUNDED CORNERS, SHOWN ON STANDARD DRAWING RI-1, APPLY TO ALL CROSS SECTIONS EVEN THOUGH OTHERWISE SHOWN IN THESE PLANS.

R/W MONUMENTS, FEDERAL PROJECT MARKERS AND SECTION MARKERS

EXISTING R/W MONUMENTS, BENCH MARKS, FEDERAL PROJECT MARKERS AND SECTION MARKERS THAT WILL BE REMOVED BY CONSTRUCTION, SHALL BE PROTECTED BY THE CONTRACTOR AS PER SECTION G-7.09 UNTIL THEY CAN BE WITNESSED, REFERENCED AND RESET BY THE CONSTRUCTION CREW.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM.

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.

SUBGRADE COMPACTION 12" IN DEPTH

THE AREA OF COMPACTED SUBGRADE TO BE PAID FOR INCLUDES THE MAIN PAVEMENTS, APPROACH SLABS, AND HARD-SURFACED CROSSROAD PAVEMENTS. SUBGRADE COMPACTION TO BE 12" IN DEPTH.

EXISTING SANITARY DRAINS OR SEWERS

SANITARY DRAINS OR SEWERS--WHICH INCLUDE LEACHING BED OUTLETS, CELLAR DRAINS, SINK DRAINS OR POLLUTED WATER OF ANY KIND--SHALL NOT BE CONNECTED TO THE HIGHWAY DRAINAGE SYSTEM, EITHER PIPES OR DITCHES. ANY SUCH DRAINS ENCOUNTERED SHALL BE PLUGGED WITH CLASS "E" CONCRETE AT THE RIGHT-OF-WAY LINE. PAYMENT FOR PLUGGING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM E-1 ROADWAY EXCAVATION, METHOD "B".

EXISTING FLEXIBLE PAVEMENTS

WITHIN THE LIMITS OF CONSTRUCTION WHERE THE EXISTING FLEXIBLE PAVEMENT WILL HAVE [illegible] FILL PLACED UPON IT, THE PAVEMENT SHALL BE THOROUGHLY SCARIFIED FOR ITS FULL DEPTH, MIXED WITH SUFFICIENT SOIL AND PROPERTY RECOMPACTED TO INSURE THE ELIMINATION OF ANY PLANE OF SEPARATION BETWEEN IT AND THE EMBANKMENT PLACED THEREON. PAYMENT FOR THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM E-1, ROADWAY EXCAVATION, (METHOD "B").

EXISTING FLEXIBLE PAVEMENT OUTSIDE NORMAL CONSTRUCTION LIMITS

OUTSIDE THE LIMITS OF CONSTRUCTION THE EXISTING FLEXIBLE 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 THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM E-8, REMOVAL AND DISPOSAL OF EXISTING PAVEMENT. SEEDING SHALL BE MEASURED AND PAID FOR IN ACCORDANCE WITH ITEM L-9.

EXCAVATION FOR ITEM B-19

EXCAVATION FOR B-19 MATERIAL USED ON SIDE ROAD APPROACHES, MAIL BOX TURNOUTS AND DRIVES HAS BEEN INCLUDED IN EARTHWORK QUANTITIES WHEN SAME IS IN "CUT". WHERE SIDE ROAD APPROACHES, MAIL BOX TURNOUTS AND DRIVES ARE IN "FILL", EXCAVATION FOR B-19 MATERIAL SHALL BE MADE BY THE CONTRACTOR AT HIS OWN EXPENSE IF HE BUILDS THE EMBANKMENT UP TO FINISH GRADE BEFORE PLACING THE B-19 MATERIAL.

ESTIMATED QUANTITIES

Specific locations and usage of estimated quantities set up on this plan to be used "as directed by the Engineer" shall be made a matter of record by incorporation into the final change order governing completion of this project.

L-9 COMMERCIAL FERTILIZER

ALL AREAS TO BE SEEDED UNDER ITEM L-9, OR SODDED UNDER ITEM L-10, SHALL HAVE COMMERCIAL FERTILIZER 12-12-12, APPLIED AT THE RATE OF TWENTY (20) POUNDS PER 1,000 SQ. FT.

SEEDING AND PROTECTING ROADWAY AREAS

QUANTITIES FOR SEEDING ARE CALCULATED FOR THE SOIL AREAS WITHIN THE WORK LIMITS AS SHOWN ON THE CROSS SECTION AND PAYMENT SHALL NOT BE MADE FOR SEEDING BEYOND THESE LIMITS. SEED SHALL BE SOWN AT THE RATE OF THREE (3) POUNDS PER 1,000 SQ. FT. EXCEPT AS OTHERWISE NOTED IN PLANS.

PROFILE

The profile of the proposed surface course, in salvage sections, shall be approximately three inches above that of the existing pavement.

NON-RIGID PAVEMENT REMOVAL

The removal and disposal of existing non-rigid pavement, unless otherwise indicated on these plans, shall be measured and paid for as Item E-1, Roadway Excavation.

ITEM I-10 RIPRAP

Cut-off walls as detailed on the plans shall be provided and payment therefor shall be included in the unit price bid for this item.

AGRICULTURAL LIMING MATERIAL

THE LOCATION AND NEED FOR AGRICULTURAL LIMING MATERIAL WILL BE DETERMINED BY LABORATORY TESTS AFTER ROUGH GRADING OPERATIONS HAVE BEEN PERFORMED. QUANTITIES OF AGRICULTURAL LIMING MATERIALS AS SHOWN ON THE PLANS ARE SUFFICIENT FOR THE ENTIRE PROJECT, BUT WILL BE NON-PERFORMED FOR THE AREAS WHERE TESTS SHOW THAT THE LIMING MATERIAL IS NOT NEEDED. WHERE USED THIS MATERIAL SHALL BE APPLIED AT THE RATE OF 100 LBS. PER 1000 SQ. FT.

EROSION CONTROL

ITEM L-1C SODDING, I-10 RIPRAP AND I-11 PAVED GUTTER, I-10 DUMPED ROCK CHANNEL PROTECTION ARE PROVIDED ON THE PLANS FOR EROSION CONTROL. THE ENGINEER SHALL CHECK AND MAKE ADJUSTMENTS IN THE LOCATION AND QUANTITIES FOR THESE ITEMS WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION. SHOULD ROCK OF A STABLE NATURE BE ENCOUNTERED AT FLOW LINE OF ANY OF THESE ITEMS, THEY MAY BE NON-PERFORMED.

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NOTES

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 BID FOR ITEM E-1, ROADWAY EXCAVATION, METHOD B . 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 THAT THE STEEL RAIL ON ALL EXISTING STEEL BEAM TYPE OR STEEL CABLE ON STEEL CABLE TYPE GUARD RAILS SHALL BE STORED ON THE RIGHT-OF-WAY AT THE DISPOSAL OF THE STATE.

REMOVAL OF TREES AND STUMPS

ALL TREES AND STUMPS LYING WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT SHALL BE REMOVED UNDER THE LUMP SUM BID FOR REMOVAL OF TREES AND STUMPS, ITEM E-9, UNLESS WORK IS INDICATED IN THESE PLANS TO PRESERVE SAME. THE STATE OF OHIO RESERVES THE RIGHT TO ORDER THE REMOVAL OF ADDITIONAL TREES OR STUMPS OUTSIDE OF THE LIMITS OF CONSTRUCTION BUT WITHIN RIGHT-OF-WAY LINES. PAYMENT FOR THE REMOVAL OF THESE ADDITIONAL TREES OR STUMPS IS INCLUDED FOR PAYMENT IN THE LUMP SUM BID UNDER ITEM E-9, REMOVAL OF TREES AND STUMPS.

DRAINAGE OF SUBBASE MATERIAL

WHERE THE SUBBASE MATERIAL IS DRAINED BY I-9 STONE UNDERDRAIN OR 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 OUT-CROP OF OF THE SUBBASE MATERIAL OR I-9 UNDERDRAIN SHALL NOT BE SEEDED.

STONE UNDERDRAIN NO. 2

NO. 2 STONE UNDERDRAIN HAS BEEN ESTIMATED ON THIS PROJECT AT 50 FT. INTERVALS ON EACH SIDE EXCEPT WHERE CLASS I-3 PIPE IS PROVIDED, OR WHERE I-22 SUB BASE IS EXTENDED AS CONTEMPLATED IN SEC. E-1.05 (b). THEY SHALL BE PLACED ON THE LOW SIDE ONLY OF SUPERELEVATED CURVES.

PLUGGING PIPE ENDS

THE UPSTREAM ENDS OF PIPE LINES OR TILE LINES INTERCEPTED BY EARTHWORK OPERATIONS SHALL BE EFFECTIVELY BLOCKED AND COVERED. BROKEN PIECES AND PORTIONS OF PIPE OR TILE SHALL BE REMOVED UNTIL A WHOLE LENGTH IS ENCOUNTERED, WHICH SHALL BE BLOCKED WITH CONCRETE, FLAT STONE OR BRICK LAID IN MORTAR, OR A PRECAST CLAY OR CONCRETE STOPPER. PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN THE PRICE BID FOR E-1 ROADWAY EXCAVATION, METHOD "B" .

PART WIDTH CONSTRUCTION

BECAUSE OF THE NECESSITY OF BUILDING PORTIONS OF THIS PROJECT UNDER TRAFFIC AND CONSTRUCTING THE PAVEMENT PART AT A TIME, EXTREME CARE SHALL BE TAKEN. TO PREVENT THE CONSTRUCTION OF A BUTT JOINT ON CENTERLINE IN THE B-19 AND I-22 COURSES. THIS SHALL BE ACCOMPLISHED BY BUILDING THE B-19 AND I-22 COURSES., PLACED WITH THE FIRST PORTION OF THE PAVEMENT BUILT, AT LEAST EIGHTEEN (18) INCHES BEYOND THE CENTERLINE AND BY SURFACING NO CLOSER THAN EIGHTEEN (18) INCHES TO THIS EDGE OF THE ABOVE COURSES. WHEN THE SECOND PORTION OF THE PAVEMENT IS BUILT, AT LEAST TWELVE (12) INCHES OF THESE PROJECTING COURSES SHALL BE BROKEN DOWN AND THOROUGHLY KEYED IN WITH THE NEWLY PLACED CORRESPONDING COURSES IN THE SECOND PORTION OF THE PAVEMENT. PAYMENT FOR THIS OPERATION SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE PERTINENT PAVEMENT ITEMS.

E-12 PIPE REMOVED AND DISMANTLED FOR STORAGE

In addition to the pertinent provisions of Item E-12, the pipe shall be carefully dismantled, by reduction to it's component parts, and plates and bolts shall be stacked for storage as provided.

CENTERLINE REFERENCE MONUMENTS

MONUMENTS SHALL BE CONSTRUCTED OF CLASS "C" CONCRETE -CAST-IN-PLACE IN A CIRCULAR HOLE EIGHT (8) INCHES IN DIAMETER AND FORTY-FOUR (44) INCHES IN DEPTH. TOP OF CONCRETE SHALL BE FINISHED AT A DEPTH OF TWO (2) INCHES BELOW GROUND LEVEL AND THE UPPER SIX (6) INCH PORTION OF THE CONCRETE SHALL BE FORMED. A ONE-HALF (1/2) INCH BRASS ROD SIX (6) INCHES LONG SHALL BE EMBEDDED IN THE WET CONCRETE AS DIRECTED BY THE ENGINEER TO MARK THE CENTERLINE AND STATION. FOR LOCATION, SEE SHEET NO. 203

EXISTING WATER WELLS

DUG WELLS ENCOUNTERED WITHIN THE WORK LIMITS SHALL BE FILLED WITH ROCK OR GRANULAR MATERIAL. DRILLED WELL CASING SHALL BE REMOVED TO AN ELEVATION APPROXIMATELY THREE (3) FEET OF FINISHED GRADE. PRIOR TO CONSTRUCTION OF EMBANKMENT, THE CONTRACTOR SHALL REMOVE ANY MASONRY SURROUNDING A WELL WITHIN THREE (3) FEET OF FINISHED GRADE. PUMPS AND OTHER APPURTENANCES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY HIM. THE COST OF FILLING OR CAPPING OF WELLS SHALL BE INCLUDED IN THE UNIT PRICE BID PER CUBIC YARD OF ROADWAY EXCAVATION, ITEM E-1, METHOD B .

REPLACEMENT

THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE, ANY ITEM NOT SPECIFICALLY LISTED FOR REMOVAL THAT IS DAMAGED OR DESTROYED BY HIS OPERATIONS.

ITEM T-30 TACK COAT

ALTHOUGH THIS ITEM HAS BEEN ESTIMATED FOR USE ON THE ENTIRE EXISTING BITUMINOUS PAVEMENT AREA TO BE SALVAGED, IT SHALL BE USED ONLY ON DRY OR CHECKED PAVEMENT AREAS WHERE SPECIFICALLY DIRECTED BY THE ENGINEER.

EROSION PROTECTION AT CULVERTS

EROSION PROTECTION AT PIPE CULVERTS SUCH AS PAVED GUTTER AND DUMPED ROCK CHANNEL PROTECTION, WHEN PROVIDED FOR BY THE PLAN, SHALL BE PLACED IMMEDIATELY AFTER INSTALLATION OF THE PIPE CULVERT.

ROCK SUBGRADE

The Contractor shall be paid for the thickness of I-22 material shown on the typical sections in rock excavation areas. Any pockets in the rock below the plan subgrade elevation shall drain either longitudinally or laterally and all irregularities in the rock below this elevation shall be filled with I-22 material at no additional cost to the State.

TRAFFIC

TWO WAY TRAFFIC SHALL BE MAINTAINED WHENEVER AND WHEREVER PRACTICABLE, EXCEPT DURING THE PLACING OF THE PROPOSED PAVEMENT WHEN ONE WAY TRAFFIC WILL BE PERMITTED. THE LENGTH AND DURATION OF USE OF ONE WAY TRAFFIC ZONES SHALL BE KEPT TO A MINIMUM. THE CONTRACTORS ATTENTION IS DIRECTED TO THE FOLLOWING SECTIONS OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS:

G 4.05 MAINTENANCE OF LOCAL TRAFFIC
G 7.06 PUBLIC CONVENIENCE AND SAFETY
G 7.07 BARRICADES, DANGER AND WARNING SIGNS
T-35.23 & B-35.25 PROTECTION OF COMPLETED COURSES
T-71.25 DURATION OF CURING

THIS NOTE SHALL NOT BE CONSTRUED TO WAIVE ANY PORTION OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS. THE FOLLOWING IS A SUGGESTED SEQUENCE OF CONSTRUCTION OPERATIONS TO FACILITATE THE MAINTENANCE OF TWO WAY TRAFFIC. IN LIEU OF THIS SUGGESTED SEQUENCE, THE CONTRACTOR MAY SUBMIT TO THE DIRECTOR, FOR APPROVAL, A WRITTEN DETAILED PLAN FOR AN ALTERNATE METHOD OF MAINTAINING TRAFFIC. THE DIRECTOR'S APPROVAL IS REQUIRED PRIOR TO THE ADOPTION OF AN ALTERNATE PLAN. SECTION 8.95 BETWEEN THE FOLLOWING STATIONS THE EXISTING PAVEMENT AND STRUCTURES SHALL BE UTILIZED FOR THE MAINTENANCE OF TRAFFIC:

STATION	472+34	TO	STATION	489+50
"	499+00	TO	"	512+00
"	519+00	TO	"	566+00
"	578+00	TO	"	583+50
"	594+50	TO	"	597+00

BETWEEN THE FOLLOWING STATIONS A TEMPORARY ROADWAY SHALL BE CONSTRUCTED ON THE LEFT OF PROPOSED PAVEMENT:

STATION	489+50	TO	STATION	499+00
"	512+00	TO	"	519+00
"	566+00	TO	"	578+00
"	583+50	TO	"	594+50

SECTION 14.20 BETWEEN THE FOLLOWING STATIONS A TEMPORARY ROADWAY SHALL BE CONSTRUCTED ON THE LEFT OR RIGHT OF THE PROPOSED PAVEMENT AS INDICATED BELOW:

STATION	750+00	TO	STATION	752+00	LT.
"	781+00	TO	"	783+00	LT.
"	800+50	TO	"	804+00	LT.
"	804+00	TO	"	806+00	RT.
"	821+50	TO	"	832+00	RT.
"	849+00	TO	"	850+50	RT.

(CON'T. ON SHEET NO. 8)

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PAVEMENT CALCULATIONS

See Sheet No	Location & Description	Side	T-35 Asphaltic Concrete Surface Course Sq. Yds. 1½"	T-35 Asphaltic Concrete Surface Course Sq. Yds. 2"	B-35 Asphaltic Leveling Course 1¾" Sq. Yds.	B-35 Asphaltic Leveling Course var. Cu. Yds.	T-30 Bituminous Prime Coat @ 0.4 Gal. per S.Y. Sq. Yds.	T-30 Bituminous Tack Coat @ 0.1 Gal. per S.Y. Sq. Yds.	B-10 Aggregate Base Sq. Yds. 6"	B-10 Aggregate Base Sq. Yds. 5"	B-10 Aggregate Base Sq. Yds. 8"	B-10 Aggregate Base Sq. Yds. var.	I-22 Subbase Sq. Yds. 6"	I-22 Subbase Sq. Yds. var.	E-8 Removal & Disposal of Ex. Wear. Course Sq. Yds.	I-9 Stone Under-Drains Lin. Ft.	E-1 Compacted Subgrade Sq. Yds.	I-7 Reinforced Concrete Approach Slabs Sq. Yds.		
3	Typical Section "A"																			
	2112.2 x 20 x 1/9		20,264.88		20,264.88												20,264.88			
	2112.2 x 21 x 1/9						21,278.12		21,278.12											
	2112.2 x 22 x 1/9												22,291.37							
3	Typical Section "B"																			
	2,950 x 20 x 1/9		6,555.55		6,555.55															
	2,950 x 5 x 1/9						1,038.89		1,038.89											
	2,950 x 6 x 1/9												1,066.67							
	2,950 x 10 x 1/9							5,211.11												
5	Feather Areas																			
	472+32 - 473+00		144.44			1.44		144.44							44.44					
	504+50 - 507+00		480.50			19.91	17.10	472.22	17.10				23.61		44.44					
	Add for Approaches																			
85	Sta. 496+00	Rt.	258.70		258.70		271.3		271.3				283.9				258.7			
85	Sta 540+40.	Lt.	244.40		244.4		258.6		258.6				272.8				244.4			
86	Sta. 543+07	Lt.	203.60		203.6		215.5		215.5				227.5				203.6			
86	Sta. 550+45	Rt.	481.60		481.6		493.8		493.8				500.0				481.6			
87	Sta. 558+47	Lt.	174.00		174.0		183.5		183.5				192.9				174.0			
87	Sta. 583+08.5	Lt.	188.70		188.7		198.4		198.4				208.1				188.7			
9	Extra Matl. Underdrains											154	277.44							
10	I-9 Schedule															3928				
	Approach Slabs																			
22	561+77.35-562+02.35	℄							58.33								55.56	55.56		
22	562+33.15-562+58.15	℄							58.33								55.56	55.56		
9	Add for Drives			1,155.24					940.52	1,314.56	203.52									
	Sub-total		28,906.43	1,155.24	28,371.43	21.35	24,555.21	5,861.10	25,612.44	1,314.56	203.52	154	26,250.25		88.88	3928	21,927.0	111.12		
	Conv. C.Y, Gal, etc.		1,000.82	64.18	1,379.17	21.35	2,822.1	586.1	4,268.74	182.58	65.23	154	4,375.04							
	Total		1,070.00		1400.52		9,822.1	586.1	4,670.55				4,375.04		88.88	3928	21,927.0	111.12 — Use 111		
			Use 1070		1401		9822	586	4,671				4375		89					

Use 1,440 Est. Deduction for Rock Subgrade
20,487

EXCAVATION & EMBANKMENT

See Sheet No	Station to Station	Side	E-1 Roadway Excavation Cu. Yds.	Roadway Embankment Cu. Yds.	Roadway Embankment +20% Cu. Yds.	E-8 Removal Existing Pavement Sq. Yds.	
17-19	519+50 ~ 536+75					3,352.77	
20	540+50 ~ 544+50					566.00	
20/21	549+75 ~ 560+00					1,936.11	
21/22	578+50 ~ 581+25					519.44	
13	472+34 - 562+02.35		59,864	48,435			
22	562+33.15 - 597+00		12,631	7,749			
	Total		72,495	56,184	67,421	6,374.32	

TRAFFIC (CON'T.)

BETWEEN THE FOLLOWING STATIONS THE EXISTING PAVEMENT AND STRUCTURES SHALL BE UTILIZED FOR THE MAINTENANCE OF TRAFFIC:

STATION 752+00 TO STATION 781+00
" 783+00 TO " 800+50
" 806+00 TO " 821+50
" 832+00 TO " 849+00

THE ABOVE SEQUENCE OF TEMPORARY ROADWAYS ARE SHOWN ON THE CROSS SECTIONS. GRADE AND LINE SHOWN ARE ONLY APPROXIMATE AND MAY BE ADJUSTED WITH THE PROJECT ENGINEERS APPROVAL. TRAFFIC COMPACTED SURFACE COURSE, ITEM T-10 AND CALCIUM CHLORIDE, ITEM M-10 SHALL BE APPLIED TO TEMPORARY ROADWAYS AS DIRECTED AND IN THE AMOUNTS REQUESTED BY THE PROJECT ENGINEER. MATERIALS FOR THE MAINTENANCE OF TRAFFIC HAVE BEEN PROVIDED AS FOLLOWS.

AGGREGATE FOR MAINTAINING TRAFFIC.
ITEM T-10 3,000 CU. YD. SEC. 8.95
1,650 CU. YD. SEC. 14.20

CALCIUM CHLORIDE FOR MAINTAINING TRAFFIC.
ITEM M-10 60 TON-SEC. 8.95
33 TON-SEC. 14.20

TRAFFIC (CON'T.)

THE HARDNESS AND SOUNDNESS REQUIREMENTS OF THE SPECIFICATIONS SHALL BE WAIVED ON ALL OF THE T-10 MATERIAL USED FOR MAINTENANCE OF TRAFFIC.

PAYMENT FOR THE ABOVE, INCLUDING CONSTRUCTION, MAINTENANCE AND SUBSEQUENT REMOVAL, WHEN REQUIRED, OF TEMPORARY ROADWAYS EXCEPT TRAFFIC COMPACTED SURFACE COURSE, ITEM T-10, & CALCIUM CHLORIDE, ITEM M-10, SHALL BE INCLUDED IN THE LUMP SUM BID FOR MAINTAINING TRAFFIC.

PAYMENT FOR CONSTRUCTION, MAINTENANCE, AND SUBSEQUENT REMOVAL OF TEMPORARY EXTENSIONS OF EXISTING OR PROPOSED CULVERTS AND SEWERS REQUIRED FOR CONSTRUCTION OF THE TEMPORARY RORDWAYS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR "MAINTAINING TRAFFIC".

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DRIVES

See Sheet No.	Station	Side	T-3.5 Asphaltic Concrete Surface Course Sq. Yd. 2"	B-19 Aggregate Base Sq. Yds. 5"	6"	8"	I-1 Class C-1 Lin. Ft. Sec. M-6.4(c) 12"	Class C-1 15"	Class C-1 18"	Class C-1 M-6.4(d) 29"x18"	E-12 Pipe Removed 18" & Under Lin. Ft.
14	486+50 Fld. Dr.	Lt.			70.03		30				
14	488+99 Res. Dr.	Rt.	79.75	85.29							
15	494+75 M.B.	Rt.	30.83	33.03							
15	494+75 Res. Dr.	Lt.	101.95	109.02				38			29
16	506+71 Res. Dr.	Rt.	79.75	85.29						32	18
17	513+25 Fld. Dr.	Lt.			70.03		30				
17	515+297 Res. Dr.	Lt.	75.35	80.22	70.03	77.14	32				
17	515+72 Res. Dr.	Rt.	90.39	96.81			38				
19	534+78 Fld Dr.	Rt.			135.32						
20	540+40 M.B.	Rt.	30.83	35.03							
20	543+97 M.B.	Rt.	30.83	35.03							
20	548+30 Fld. Dr.	Rt.			75.35		36				
21	552+30 Fld. Dr.	Rt.			82.00						
21	552+30 Res. Dr.	Lt.	79.75	85.29		75.40					
21	557+00 Fld. Dr.	Rt.			70.03						
22	561+64 Fld. Dr.	Lt.			100.62			36			
22	563+15 Fld. Dr.	Lt.			88.05		32				
22	565+15 Res. Dr.	Rt.	85.07	91.05		34.58	36				24
23	572+25 Fld. Dr.	Lt.			70.03				34		
23	575+43 Res. Dr.	Rt.	70.03	74.46				36			28
24	586+64 Res. Dr.	Rt.	88.65	94.62			36				36
24	587+38 Res. Dr.	Rt.	88.65	94.62		39.90	38				20
24	589+90 M.B.	Lt.	30.83	35.03							
25	590+15.6 Res. Dr.	Rt.	75.35	80.22		53.20	34				21
25	592+50 Res. Dr.	Lt.	85.07	91.05		13.30					
25	592+50 Fld. Dr.	Rt.			82.90						
20	540+40 Fld. Dr.	Rt.			95.47						
21	558+47 M.B.	Rt.	32.16	36.47							
20	546+73	Lt.									12
	Total		1,155.24	1,314.54	940.52	293.52	342	110	34	32	188

DRAINAGE

See Sheet No.	Station to Station	Side	I-1 Class I-S 6" Lin. Ft.	I-1 Class F-1 8" Pipe Lin. Ft.	I-S Pipe Special Tee	I-S Pipe Special Ells
18	525 + 64.35	Lt.		10		
18/19	525+84.34-532+50	Lt.	694			
19	532 + 75	Lt.		10		
19	537+15-539+50	Lt.	258			
19	539 + 75	Lt.		10		
20	545+00 - 549+00	Lt.	422			
20	549+25	Lt.		10		
20	545+00-549+00	Rt.	424			
20	549+00	Rt&L			1	1
21	551+50 - 554+35	Lt.	304			
21	554+60	Lt.		10		
22	560 + 50	Rt&L	32	10	1	1
22	506+50 - 569+50	Lt.	300			
22	566+50-569+50	Rt.	300			
23	571 + 75	Rt.		10		
23	572+00 - 576+50	Rt.	466			
23	575+43.7	Rt.				
24	583 + 35.5	Lt.		10		
24/25	583+60 - 594+00	Lt.	1054			
24	587 + 83.43	Rt&L	24		1	1
24/25	587+83.43 -591+50	Rt.	366			
19	533+15 - 536+50	Lt.	340			
19	537+75	Lt.		10		
	Total		4,984.0	90	3	3

GUARD RAIL

See Sheet No.	Station to Station	Side	I-1S Guard Rail Steel Beam Type (Deep) Lin. Ft.	I-1S Guard Rail Posts Only Each	I-1S Guard Rail Removed & Stored Lin. Ft.
18	520+49.12-522+55.62	Lt.	212.50		
18	520+83.12-525+45.62	Rt.	462.50		
19	536 + 50	Lt&L		3	
20	540+49.5	Lt&L		3	
20	542+00 - 0+89	Lt.	225.0		
20	542+25 - 544+00	Rt.	175.0		
20	545+50 - 546+29	Lt.		16	
20/21	549+75 - 550+25	Lt.	50.0		
20/21	549+75 - 0+90	Rt.	125.0		
21	0+95 - 551+00	Rt.	87.5		
21	554+78.05-556+03.05	Lt.	125.0		
21	555+00.55-556+00.55	Rt.	100.0		
22	561+02.38-562+77.38	Rt.	175.0		
22	561+83.12-562+70.62	Lt.	87.5		
24	581+25	Lt.		3	
	Sub Total		1825.0		
22	Deduct for Bridge		61.6		
	Total		1763.4	25	

REMOVAL OF TREES & STUMPS	
ITEM E-9	LUMP

SUMMARY OF QUANTITIES

FED. RD. DIVISION	STATE	PROJECT		10
2	OHIO			

ADAMS COUNTY
ADA-247-(8.95)(14.20)

I-9 UNDERDRAIN SCHEDULE

STATION LT.	STATION RT.	STATION LT.	STATION RT.	STATION LT.	STATION RT.
472+50	472+75	509+00	510+75	575+00	581+75
473+00	473+25	509+50	511+25	579+50	582+25
473+50	473+75	510+00	511+75	580+00	582+75
474+00	474+25	510+50	512+25	580+50	583+25
474+50	474+75	511+00	512+75	581+00	583+25
475+00	475+25	511+50	513+25	581+50	
475+50	475+75	512+00	513+75	582+00	
476+00	476+25	512+50	514+25	582+50	
476+50	476+75	513+50	514+75	583+50	
477+00	477+25	514+00	516+25		
477+50	477+75	514+50	517+25		
478+00	478+25	515+00	517+75		
478+50	478+75	516+00	518+25		
479+00	479+25	516+50	518+75		
479+50	479+75	517+00	519+25		
480+00	480+25	517+50	519+75		
480+50	480+75	518+00	520+25		
481+00	481+25	518+50	520+75		
481+50	481+75	519+00	521+25		
482+00	482+25	519+50	521+75		
482+50	482+75	520+00	522+25		
483+00	483+25	520+50	522+75		
483+50	483+75	521+00	523+25		
484+00	484+25	521+50	523+75		
484+50	484+75	522+00	524+25		
485+00	485+25	522+50	524+75		
485+50	485+75	523+00	525+25		
486+00	486+25	523+50	525+75		
486+50	486+75	524+00	526+25		
487+00	487+25	524+50	526+75		
487+50	487+75	525+00	527+25		
488+00	488+25	525+50	527+75		
488+50	489+25	540+00	543+25		
489+00	489+75	541+00	544+25		
489+50	490+25	541+50	544+75		
490+00	490+75	542+00	545+25		
490+50	491+25	542+50	546+75		
491+00	491+75	543+00	551+25		
491+50	492+25	543+50	554+75		
492+00	492+75	544+50	555+25		
492+50	493+25	549+50	555+75		
493+00	493+75	550+00	556+25		
493+50	494+25	550+50	557+75		
494+00	496+25	551+00	558+25		
496+50	496+75	555+00	568+75		
496+00	497+25	555+50	559+25		
496+50	497+75	556+00	559+75		
497+00	498+25	556+50	560+25		
497+50	498+75	557+00	560+75		
498+00	499+25	557+50	561+25		
498+50	499+75	558+00	561+75		
499+00	500+25	559+00	562+25		
499+50	500+75	559+50	563+75		
500+00	501+25	560+00	564+25		
500+50	501+75	560+50	564+75		
501+00	502+25	561+00	565+75		
501+50	502+75	562+00	566+25		
502+00	503+25	563+00	568+75		
502+50	503+75	563+50	570+25		
503+00	504+25	564+00	571+25		
503+50	504+75	564+50	571+75		
504+00	505+25	565+50	576+75		
504+50	505+75	566+00	577+25		
505+00	506+25	570+00	577+75		
505+50	507+25	570+50	578+25		
506+00	507+75	571+00	578+75		
506+50	508+25	571+50	579+25		
507+00	508+75	577+00	579+75		
507+50	509+25	577+50	580+25		
508+00	509+75	578+00	580+75		
508+50	510+25	578+50	581+25		

EROSION CONTROL

See Sheet No	Station to Station	Side	I-14 Paved Gutter with Sod Strips L.F.		L-9 Seeding & Protecting Sq. Yds	L-10 Sodding Sq. Yds.	L-9 Commercial Fertilizer Tons	L-9 Agricultural Liming Material Tons		
13	472+34 - 479+00	Lt.				666				
13/14	479+00 - 480+50	Lt.				100				
15	491+00 - 494+57	Lt.				238				
15	494+98 - 495+32	Lt.				26				
15/16	495+52 - 506+00	Lt.				698.67				
16	501+30 - 506+36	Rt.				526.00				
16/17	506+86 - 513+00	Rt.				409.33				
17	516+86.5 - 520+00	Rt.				209.00				
18	520+51 - 524+00	Lt.	349			116.22				
18	524+00 - 528+00	Lt.				266.67				
18	526+50 - 528+00	Rt.				100.00				
19	530+50 - 532+92.5	Lt.				161.67				
19	532+00 - 532+60	Rt.				40.00				
19	533+30 - 536+97.5	Lt.				231.67				
19	537+025 - 538+50	Lt.				98.33				
19/20	538+50 - 540+18	Lt.	168			55.44				
20	540+68 - 542+95.5	Lt.	2278			75.75				
20	548+50 - 549+66	Lt.				77.33				
21	553+00 - 555+32	Lt.				154.67				
21	553+90 - 555+33	Rt.				95.33				
21	555+42 - 556+50	Lt.				78.00				
21	555+405 - 556+50	Rt.				73.00				
21/22	558+71 - 561+47	Lt.				184.00				
22	561+81 - 561+26	Lt.				30.00				
22	562+15 - 564+98	Rt.				188.67				
22	565+32 - 569+00	Rt.				245.33				
23	570+59 - 572+09	Lt.				106.00				
23	570+92 - 575+28	Rt.				290.67				
23/24	572+41 - 582+70.5	Lt.				686.03				
24/25	583+33.5 - 590+50	Lt.				477.67				
24	583+51.35 - 586+47	Rt.				197.10				
24	586+81 - 587+35	Rt.				36.00				
24	587+71 - 590+01	Rt.				153.33				
25	590+34 - 590+50	Rt.				10.67				
22	562+23 - Channel	Rt./Lt.			61.00					
20	472+34 - 562+02.35	Rt./Lt.			48328.00					
60	562+33.15 - 597+00	Rt./Lt.			17,294.00					
	Ex. Pavement Removal	Lt.			6,374.32					
15	494+18	Lt.				6.67				
	Total		774.5		72,057.32	7,103.82	7.12	35.62		
	Use		775		72,057	7104				

STRUCTURES

See Sheet No	Station	Side	Struct No	E-5 Channel Excavation Cu. Yds.	E-12 Pipe Removed 18" & Under Lin. Ft.	E-12 Pipe Removed Over 18" Lin. Ft.	I-1 Class A-1 Pipe Lin. Ft. 15"	18"	30"	36"	42"	I-1 Class B-1 Pipe Lin. Ft. 12"	15"	24"	I-1 Class S-1 Lin. Ft. M-6.4(a) 22"x13"	M-6.4(b) 106"x68"	I-2 Masonry Class "C" Cu. Yds.	E-12 Pipe Removed & Stored over 18" Lin. Ft.	I-10 Riprap Sq. Yds.	I-10 Dumped Rock Channel Protection Cu. Yds.	S-24 Removal of Existing Structure Lump	I-1 30" Pipe Class A-1 Sec. M-6.6(b) or M-6.8(b) Lin. Ft.	E-12 Pipe Removed Dismantled & Stored 5'-10"x 6'-6" Lin. Ft.
88	486 + 72	℄	1	2	34					66(a) 42(a)	66(a) or 6.4(d)				50'		0.83		10	4			
89	495 + 32	℄	2	14												90	10.06		68	33	Lump		
90	516 + 80	℄	3	1		36											1.02		19	7		76	
91	520 + 75	℄	4					100									0.60		14	7	Lump		
92	533 + 00	℄	5				76										0.32		12	3			
93	537 + 00	℄	6				*52										0.32		9	6			
94	543 + 24	℄	7	275						134							1.18		22	10			42
95	550 + 25	℄	8	150					148								1.02	46	24	14			
96	555 + 37	℄	9	70							108						1.52	46	27	20			
97	570 + 73	℄	10		32				100								1.02		19	7			
85	496+00	Rt										74								5			
85	540+40	Lt												52									
87	583+08.5	Lt			42								54							7			
22	562+26 - 562+36	Lt																		6			
22	562+05 - 562+15	Rt																		6			
27	494+70.5 Double Gate & End Posts	Lt																			Lump		
	Total			5.12	108	36	128	100	248	134	108	74	54	52	50	90	18.29	92	224	135	Lump	76	42
							* Sec. M-6.4(d)										Use 18.3						

GENERAL SUMMARY TYPE CODE 6201

ITEM NO.	QUANTITY		TOTAL	UNIT	DESCRIPTION
	Sec 895	Sec. 14.20			**ROADWAY**
E-1	72,495	116,574	189,059	Cu. Yds.	Roadway Excavation, Method B, as per plan
E-1	20,487	15,272	35,759	Sq. Yds.	Compacted Subgrade
E-8	6375	4531	10,906	Sq. Yds.	Removal & Disposal of Existing Pavement, as per plan
E-8	89	71	160	Sq. Yds.	Removal & Disposal of Existing Wearing Course
E-9	Lump	Lump	Lump	Sum	Removal of Trees and Stumps
E-11	352	411	763	M-Gals.	Water
E-12	296	246	542	Lin. Ft.	Pipe Removed, 18" and under
E-12	36	142	178	Lin. Ft.	Pipe Removed, over 18"
E-12	92		92	Lin. Ft.	Pipe Removed for Storage, over 18"
E-12	42		42	Lin. Ft.	5'10"x 6'6" Pipe Removed and Dismantled, as per plan, for storage.
I-8	69	53	122	Each	Centerline Reference Monuments, as per plan
I-15	1763.40	1821.60	3585.00	Lin. Ft.	Guard Rail, Steel Beam Standard Type (Deep)
I-15	25		25	Each	Wood Guard Rail Posts without Rail
L-9	72,057	85,476	157,533	Sq. Yds.	Seeding and Protecting
L-9	7.12	8.40	15.52	Tons	Commerical Fertilizer (12-12-12)
L-9	35.62	42.00	77.62	Tons	Agricultural Liming Material, as per plan
L-10	7,104	7,868	14,972	Sq. Yds	Sodding
M-10	60	33	93	Tons	Calcium Chloride Furnished & Applied for Maintaining Traffic
T-10	3000	1650	4650	Cu. Yds.	Traffic Compacted Surface Course for Maintaining Traffic
E-10	Lump		Lump	Lump	Removal of one frame barn and one frame barn and garage, Parcel No. 13
					DRAINAGE
E-3	512	74	586	Cu. Yds.	Channel Excavation
I-1	76		76	Lin. Ft.	15" Pipe, Class A-1
I-1	52		52	Lin. Ft.	15" Pipe, Class A-1, Sec. M-6.4 (d)
I-1	100		100	Lin. Ft.	18" Pipe, Class A-1
I-1		192	192	Lin. Ft.	24" Pipe, Class A-1
I-1	248		248	Lin. Ft.	30" Pipe, Class A-1
I-1	76		76	Lin. Ft.	30" Pipe, Class A-1, Sec. M-6.6(b) or M-6.8(b)
I-1	134		134	Lin. Ft.	36" Pipe, Class A-1, Sec. M-6.6(d) or M-6.4(d)
I-1	108		108	Lin. Ft.	42" Pipe, Class A-1, Sec. M-6.6(c) or M-6.4(d)
I-1		150	150	Lin. Ft.	144" Pipe, Class A-1, Sec. M-6.4(g) 5-3 Gage
I-1		110	110	Lin. Ft.	30" Pipe, Class A-1, Sec. M-6.6(c) or M-6.4(d)
I-1	74	66	140	Lin. Ft.	12" Pipe, Class B-1, Sec. M-6.5(b), M-6.6(a) or M-6.8(b)
I-1	54		54	Lin. Ft.	15" Pipe, Class B-1, Sec. M-6.5(b), M-6.6(a) or M-6.8(b)
I-1	52		52	Lin. Ft.	24" Pipe, Class B-1, Sec. M-6.6(a) or M-6.8(b)
I-1	342	214	556	Lin. Ft.	12" Pipe, Class C-1, Sec. M-6.4(c)
I-1	110	36	146	Lin. Ft.	15" Pipe, Class C-1, Sec. M-6.4(c)
I-1	34	72	106	Lin. Ft.	18" Pipe, Class C-1, Sec. M-6.4(c)
I-1	90	150	240	Lin. Ft.	8" Pipe, Class F-1
I-1		30	30	Lin. Ft.	18" x 11" Pipe, Class G-1, Sec. M-6.4(i)(c)
I-1	50		50	Lin. Ft.	22" x 13" Pipe, Class G-1, Sec. M-6.4(i)(d)
I-1	32		32	Lin. Ft.	29" x 18" Pipe, Class G-1, Sec. M-6.4(i)(c)
I-1		32	32	Lin. Ft.	36" x 22" Pipe, Class G-1, Sec. M-6.4(i)(c)
I-1	90		90	Lin. Ft.	100" x 68" Pipe, Class G-1, Sec. M-6.7(b)
I-1		860	860	Lin. Ft.	6" pipe, Class I-3, Sec. M-6.4(h)(c)
I-1	4984	10,888	15,872	Lin. Ft.	6" Pipe, Class I-3
I-2	18.3	17.9	36.2	Cu. Yds.	Masonry, Class "C"
I-5	6	6	12	Each	6" Pipe Specials, Class I-3
I-8		1	1	Each	Standard No. 2-3 Catch Basin, modified as per plan
I-9	3928	1386	5214	Lin. Ft.	Stone Underdrains No 2
I-9		12	12	Lin. Ft.	Stone Underdrains No 1, as per plan
I-10	135	131	266	Cu. Yds.	Dumped Rock Channel Protection
I-10	224	108	332	Sq. Yds.	Riprap, as per plan
I-14	775	2032	2807	Lin. Ft.	Paved Gutter Std. Type 1
S-24	Lump	Lump	Lump	Lump	Removal of Existing Structures
					PAVEMENT
I-35	1070	826	1896	Cu Yds.	Asphaltic Concrete Surface Course Type "C" (85-100)
B-35	1401	1100	2501	Cu Yds.	Asphaltic Concrete Leveling Course (85-100)
T-30	9822	9513	19,335	Gals.	Bituminous Prime Coat, Sec. M-5.7, RT-2 or RT-3
T-30	586		586	Gals.	Bituminous Tack Coat, Sec. M-5.5, MS-2 or RS-1 or Sec. M-5.2, RC-1 or RC-2, as per Sec. T-30.02
B-19	4671	4,701	9372	Cu Yds.	Aggregate Base Course
I-22	4375	4286	8661	Cu Yds.	Subbase
I-7	111	223	334	Sq. Yds.	Reinforced Concrete Approach Slabs (T=13")

STRUCTURES OVER 20' SPAN

For estimated quantities

Structure No. ADA-247-1065, see sheet 180

Structure No. ADA-247-1471, see sheet 187

Structure No. ADA-247-1578, see sheet 195

FED. AID SYSTEM	STATE	PROJECT	FISCAL YEAR
2	OHIO		

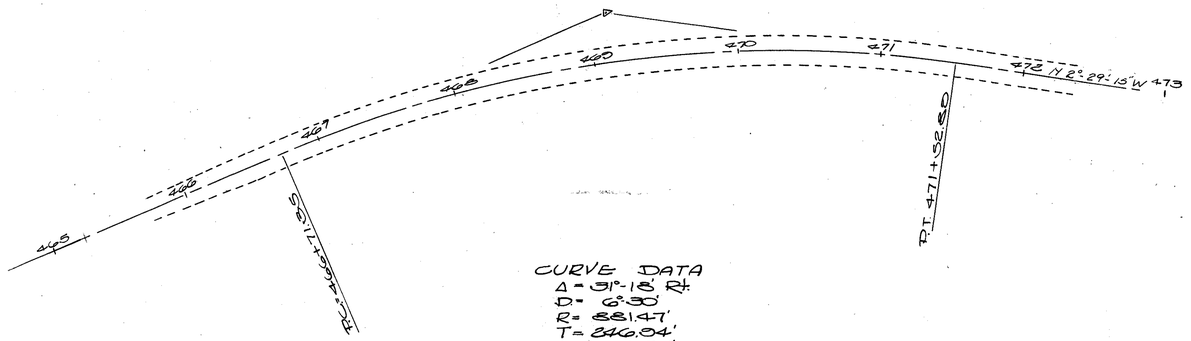
ADAMS COUNTY
ADA-247-(8.95)(4.20)

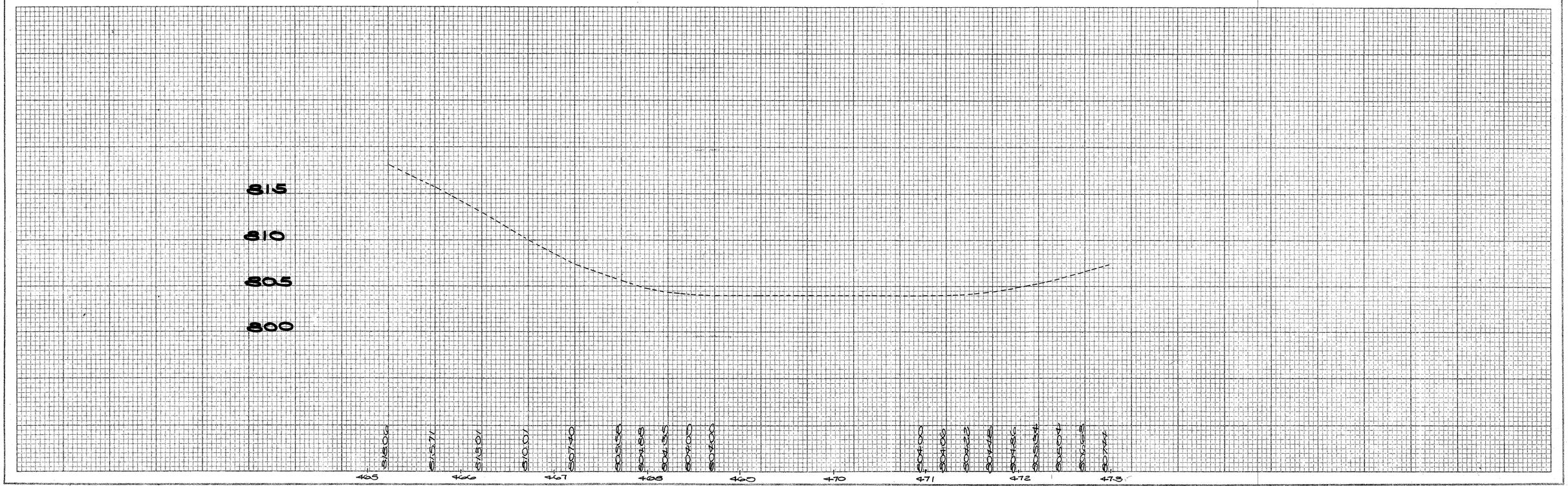
11

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

12

ADAMS COUNTY
ADA-247-(8.95)(14.20)



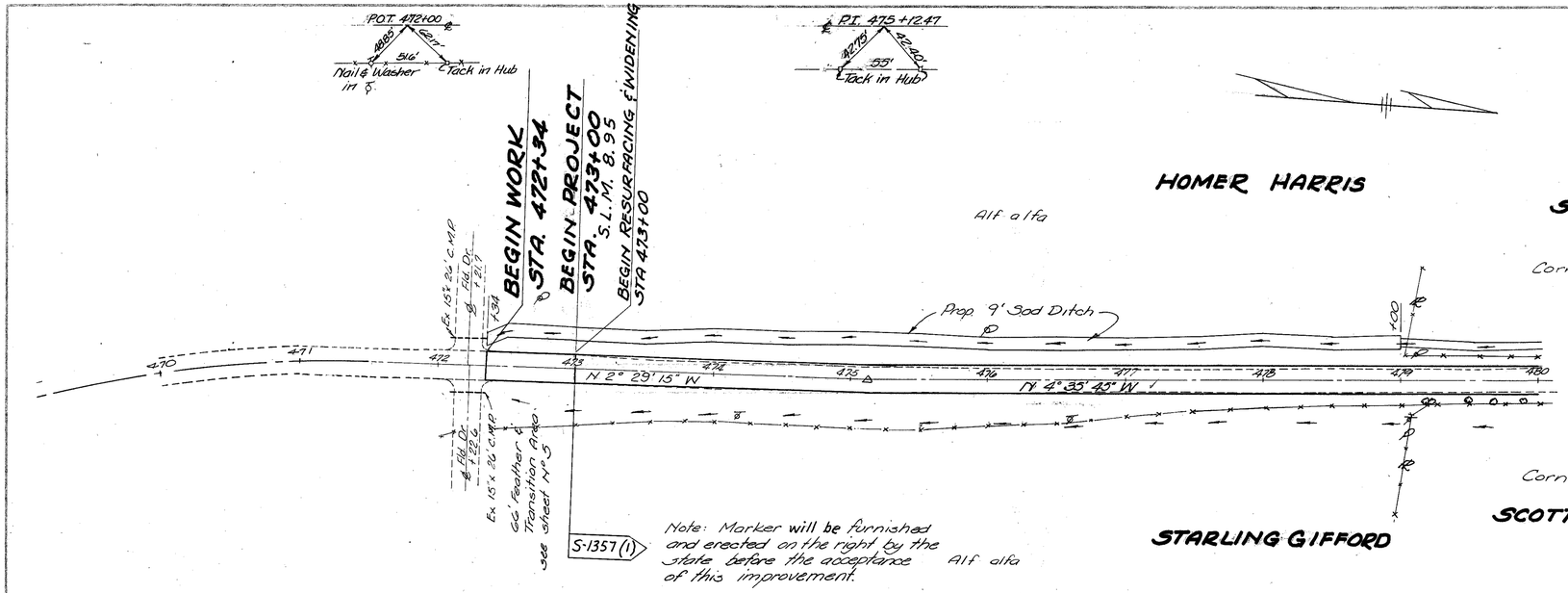


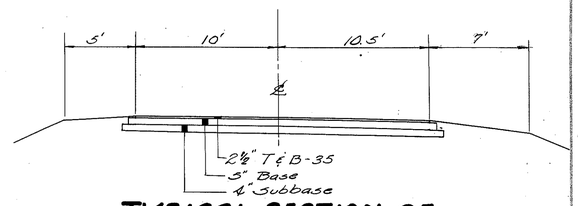
STA-465+00 TO STA-473+00

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

13

ADAMS COUNTY
ADA-247-(8.95)(14.20)





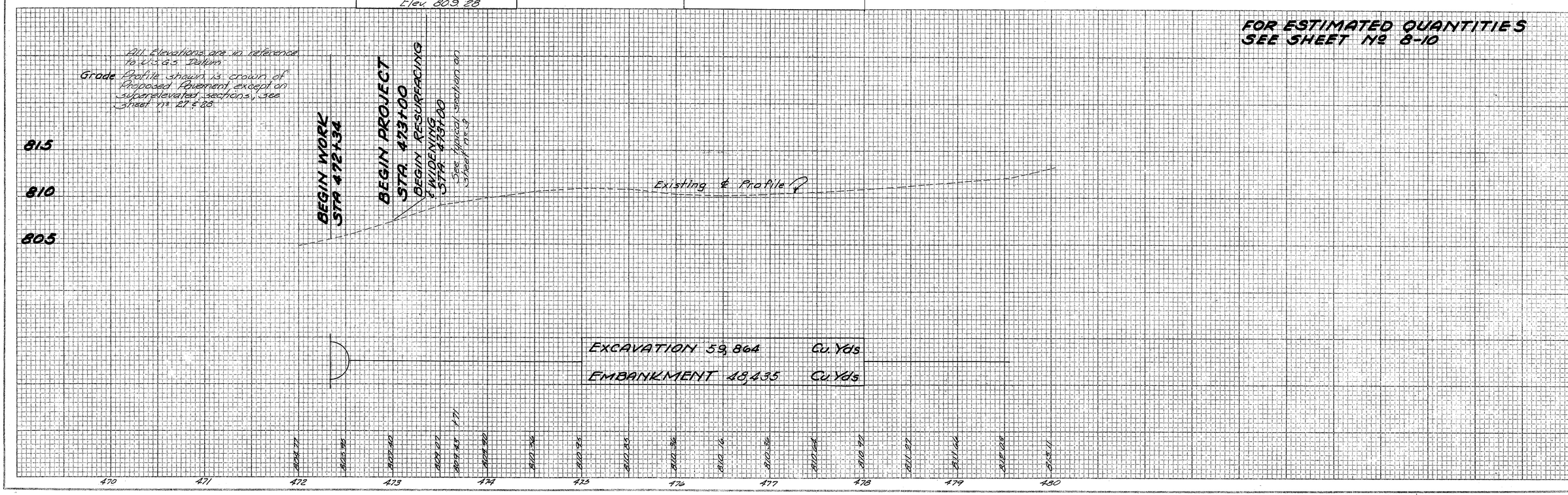
TYPICAL SECTION OF ADJACENT PAVEMENT AT BEGIN PROJECT

BENCH MARK
P.K. Nail in ℄ East of ℄ S.R. 247 & 400'± North of pipe ADA-247-0889
Elev. 809.28

P.I. Sta. 475+12.47
Δ - 2°06'30" Lt.
E - 2.0'

BENCH MARK
Spike in ℄ 28.2' Rt. ℄ Trav. S.R. 247 Sta. 476+59.2
Elev. 810.70

FOR ESTIMATED QUANTITIES SEE SHEET Nº 8-10



STA. 470+00 TO STA. 480+00

FED. RD. DIVISION	STATE	PROJECT		14
2	OHIO			

ADAMS COUNTY
ADA-247-(8.95)(14.20)

UTILITIES

THE COLUMBUS & SOUTHERN OHIO Elec. Co.
215 N. FRONT ST., COLUMBUS 15, OHIO
THE GENERAL TELEPHONE CO. OF OHIO
197 S. MAIN ST. MARION OHIO
THE OHIO BELL TELEPHONE CO.
215 W. SECOND ST. DAYTON 1, OHIO
THE OHIO VALLEY ELECTRIC CORP.
Box 225, CHILLICOTHE, OHIO
ADAMS RURAL ELECTRIC Co. Co-op
WEST UNION, OHIO

Tack in Hub
633°
41.20'
84.20'
P.I. 486+95.28 ℄

SCOTT J. RIGDON

Corn

END SALVAGE
BEGIN NEW PAVEMENT
STA. 489+50

Prop. 1'-6" x 18'-4" x 50' G-1
℄ 72
ADA-247-0922

480 481 482 483 484 485 486 487 488 489 490

N 4°-35'-45" W

N 5°-26'-15" W

Gate

Sign

Prop. 12" CM
Prop. 12" CM
Ex. 18" Conc. Pipe
℄ 73.8

Lawn

2 Sty Frame House

Cistern

Pasture

Prop. Face Dr.
℄ 99

Conc. Blk. & Fr. Barn

SCOTT RIGDON JR.

Prop. 1'-6" x 18'-4" x 50' G-1
℄ 85.71

P.I. 486+93.28
Δ - 0°-30'-30" Lt.

BENCH MARK

U.S.G.S. Bronz Disk in bottom Step to Res. of Scott Rigdon's Jr. 76.7' Rt. 488+586 (New Set in Sept. 1959 (Elev. 814.4)

FOR ESTIMATED QUANTITIES
SEE SHEET Nº 8-10

FOR DETAIL OF STRUCTURE Nº 1
SEE SHEET Nº 88

820
815
810

813.11 814.02 813.19 813.09 814.38 814.62 815.02 813.15 813.81 813.62 812.90 812.22 812.32 811.71 811.86 811.62 810.37 810.29 810.24 811.35

812.98 813.74

END SALVAGE
BEGIN NEW PAVEMENT
STA. 489+50

Ex. 18" x 34' Conc. Pipe
℄ 809.99

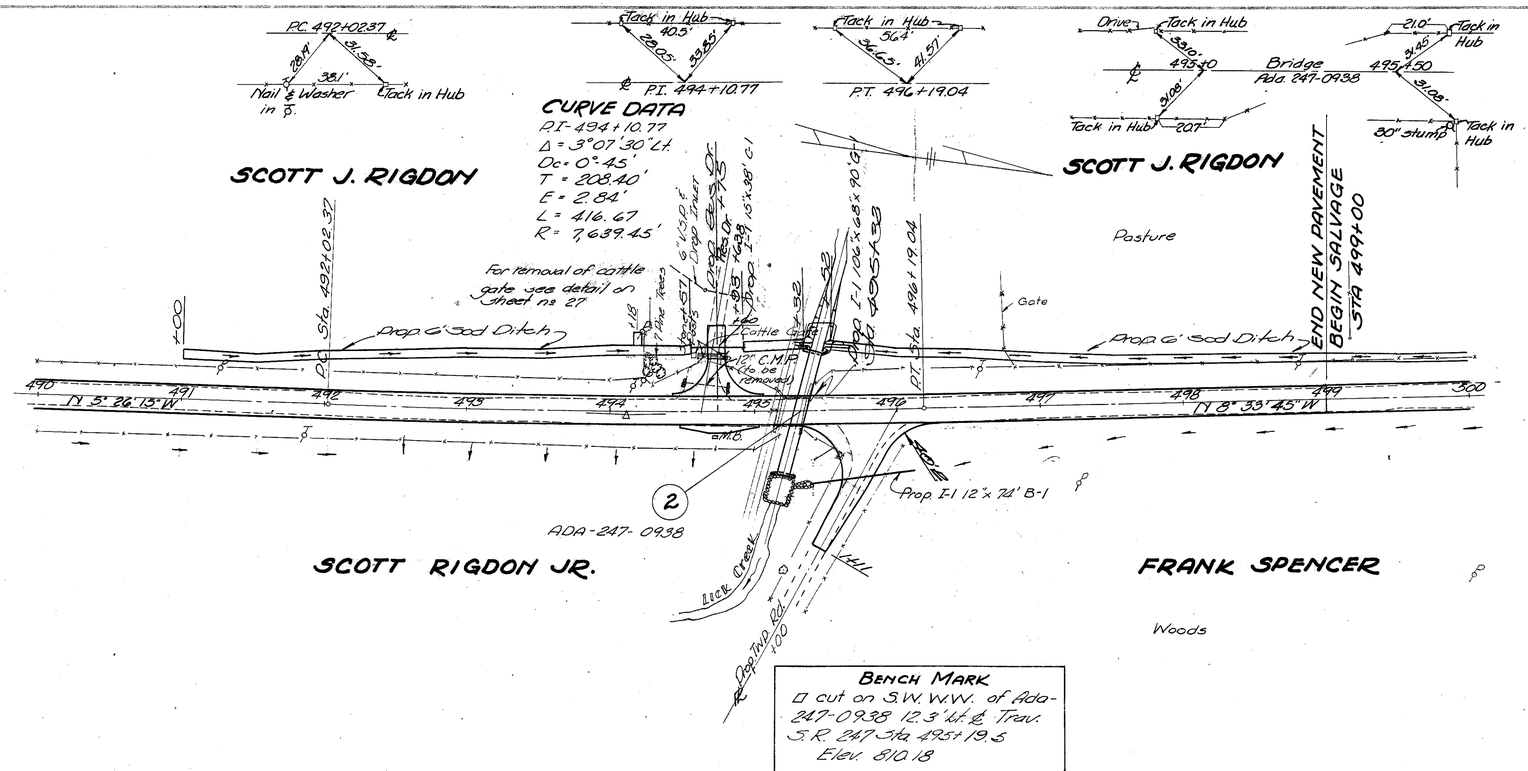
Prop. 1'-6" x 18'-4" x 50' G-1
℄ 809.6

480 481 482 483 484 485 486 487 488 489 490

STA. 480+00 TO STA. 490+00

FED. RD. DIVISION	STATE	PROJECT		15
2	OHIO			

ADAMS COUNTY
ADA-247(8.95)(14.20)

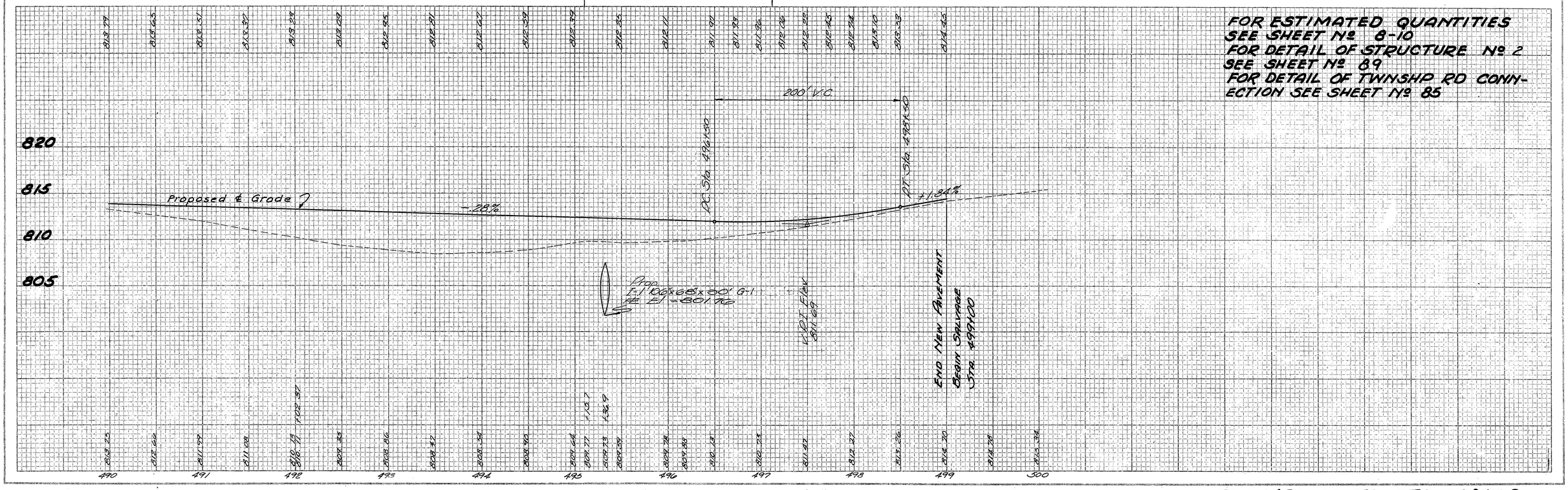


BENCH MARK
□ cut on S.W. W.W. of Ada-247-0938 12.3' Lt. ℄ Trav.
S.R. 247 Sta. 495+19.5
Elev. 810.18

EXISTING BRIDGE DATA

Bridge No.	ADA-247-0938
Type	Steel Beam
Span	16'-2"
Roadway	18'-9"
Condition	Good
Reduction	None
Skew	13° R.F.
Loading	S-15.9
Ht. Gr. to ℄	7.6'
Suff. Rating	77

PROPOSED STRUCTURE
106" ×68"- 90' Reinforced Elliptical Concrete Pipe



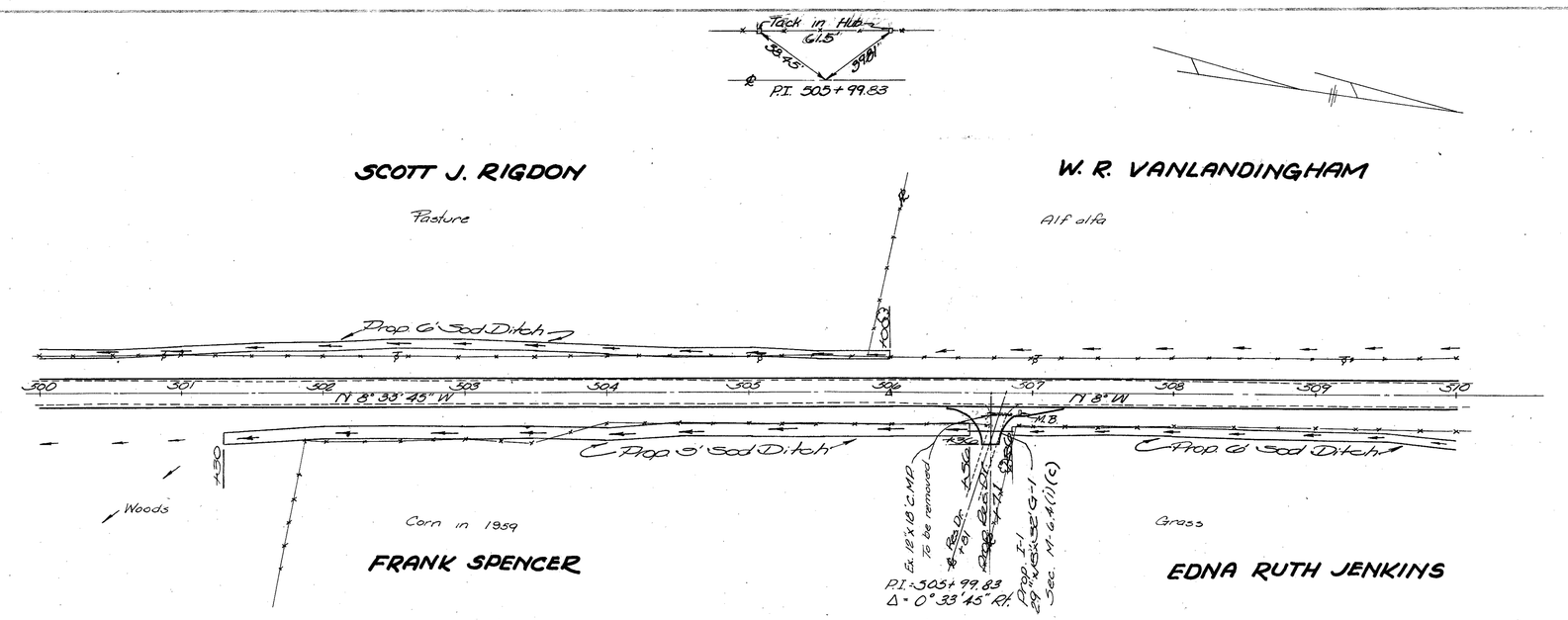
FOR ESTIMATED QUANTITIES SEE SHEET Nº 8-10
FOR DETAIL OF STRUCTURE Nº 2 SEE SHEET Nº 89
FOR DETAIL OF TWNSHIP RD CONNECTION SEE SHEET Nº 85

STA. 490+00 TO STA. 500+00

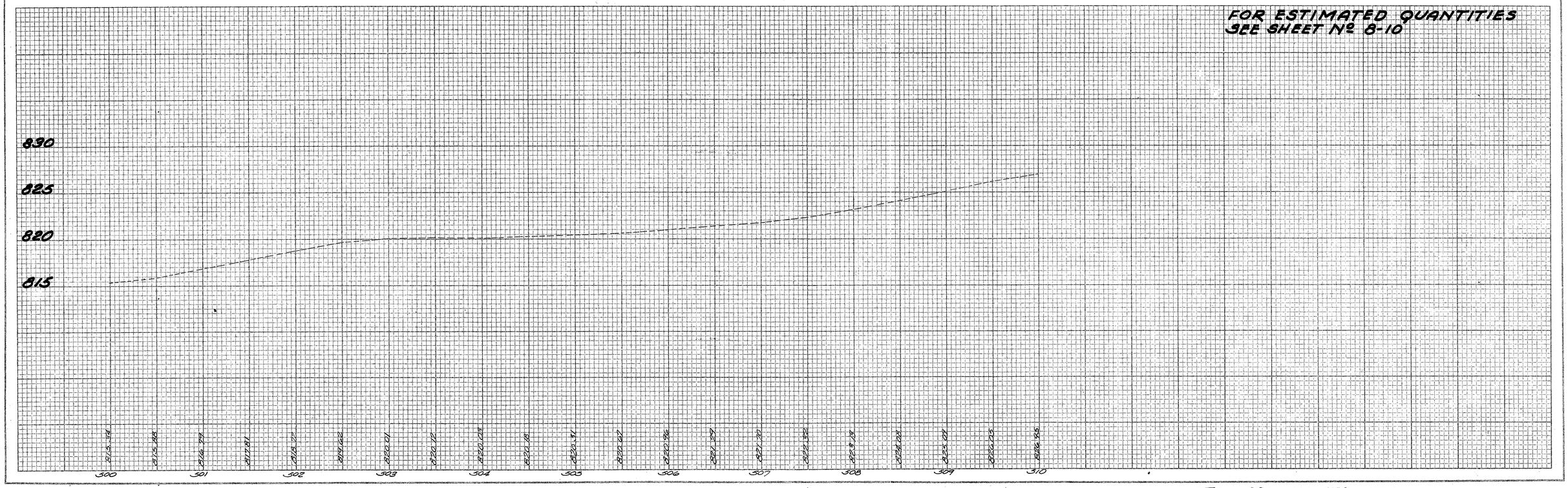
FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

16

ADAMS COUNTY
ADA - 247-(8.95)(14.20)



FOR ESTIMATED QUANTITIES
SEE SHEET Nº 8-10

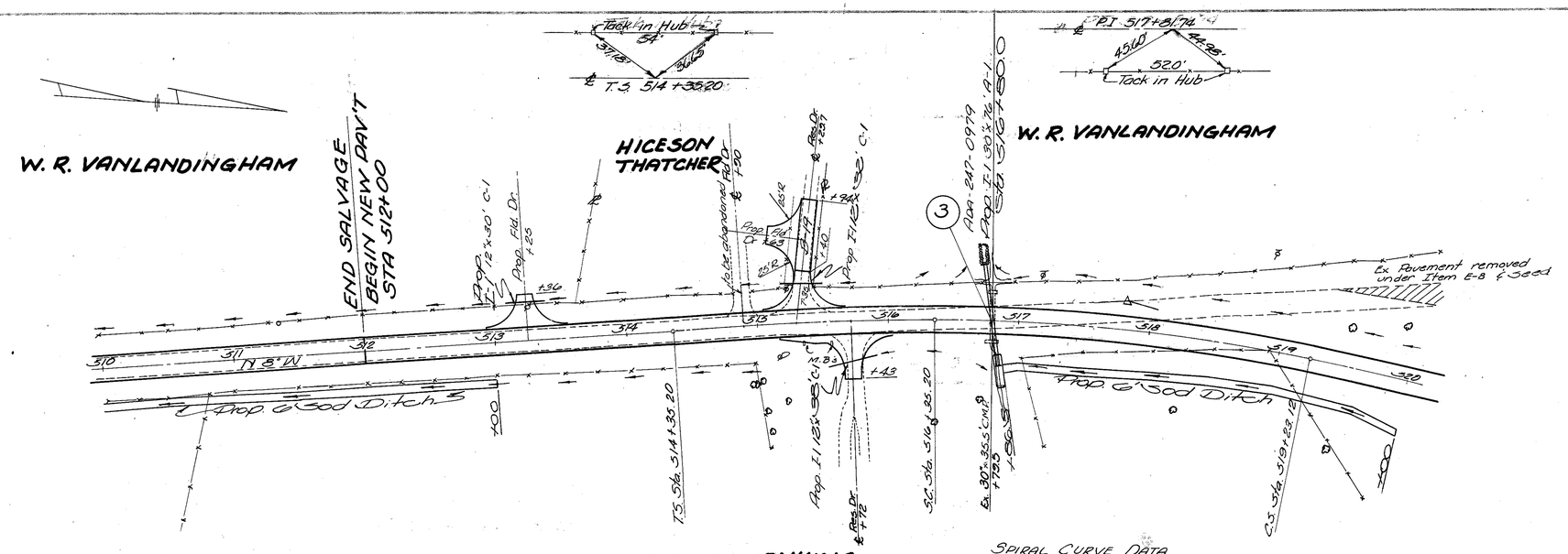


STA. 300+00 TO STA. 310+00

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

17

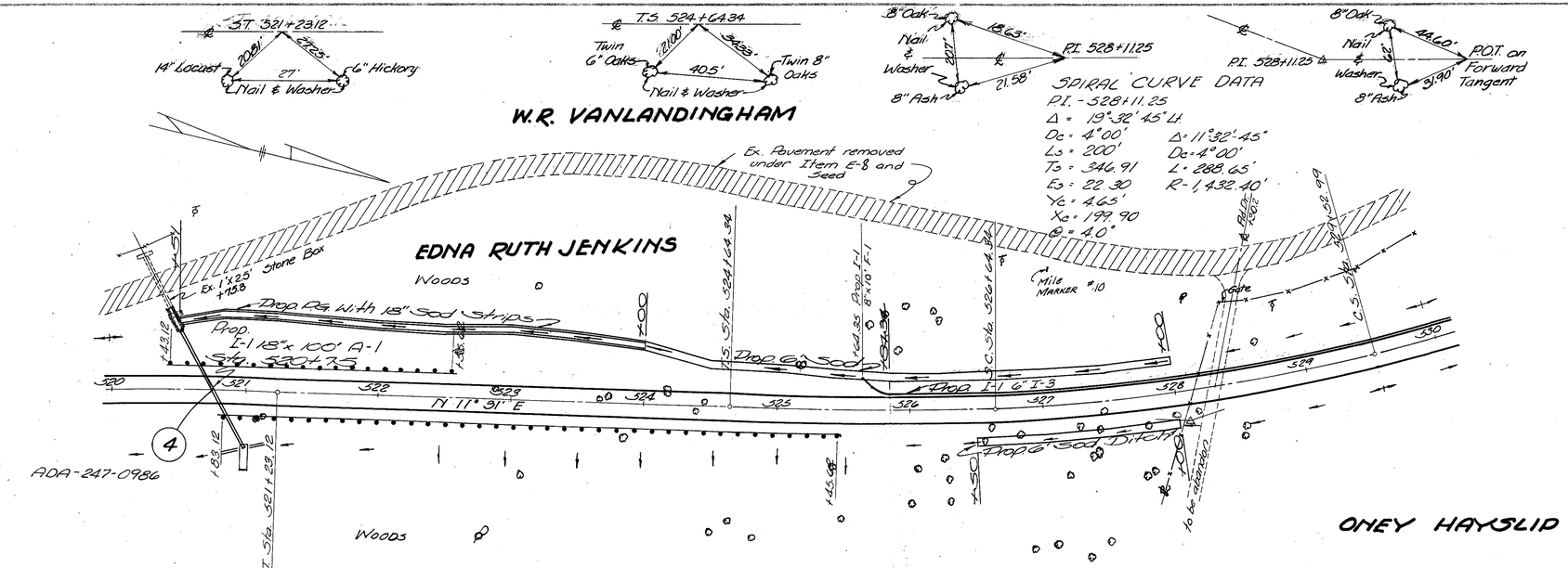
ADAMS COUNTY
ADA-247-(8.95)(14.20)

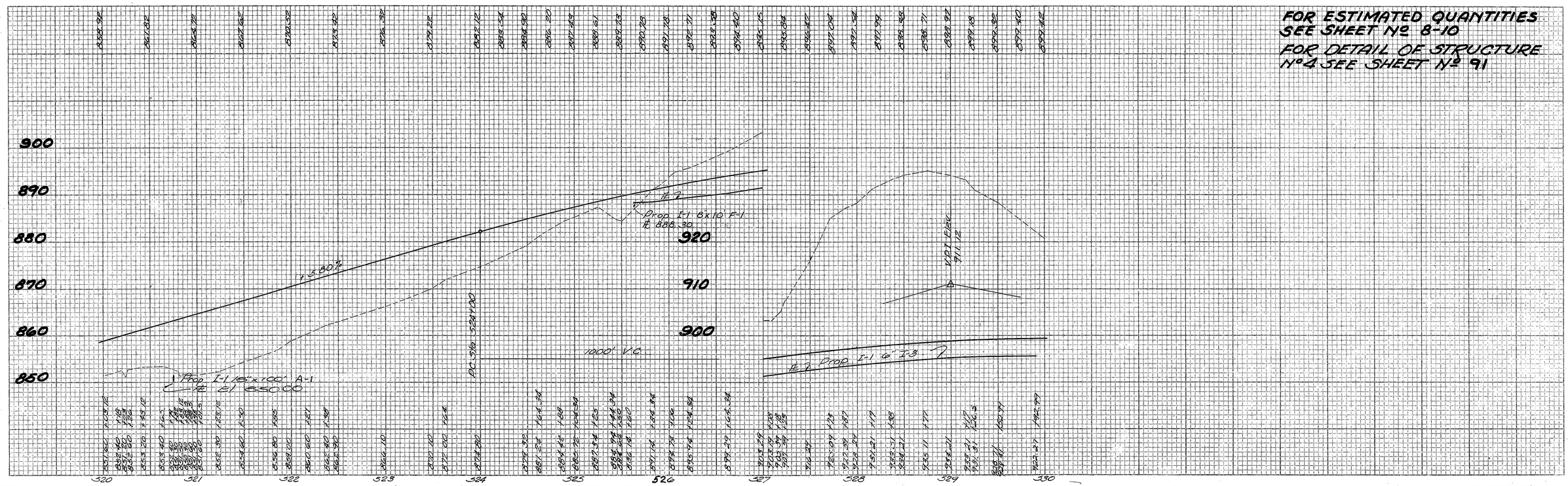

Tack in Hub
54'
37.18'
36.43'
℄ T.S. 514+35.20
PI 517+81.74
44.26'
45.60'
320'
Tack in Hub
W. R. VANLANDINGHAM
HICESON THATCHER
W. R. VANLANDINGHAM
EDNA RUTH JENKINS
END SALVAGE
BEGIN NEW PAV'T
STA 512+00
Prop. 12"x30" C.I.
Prop. Fld. Dr. #25
Prop. Fld. Dr. #24
Prop. Fld. Dr. #23
Prop. Fld. Dr. #22
Prop. Fld. Dr. #21
Prop. Fld. Dr. #20
Prop. Fld. Dr. #19
Prop. Fld. Dr. #18
Prop. Fld. Dr. #17
Prop. Fld. Dr. #16
Prop. Fld. Dr. #15
Prop. Fld. Dr. #14
Prop. Fld. Dr. #13
Prop. Fld. Dr. #12
Prop. Fld. Dr. #11
Prop. Fld. Dr. #10
Prop. Fld. Dr. #9
Prop. Fld. Dr. #8
Prop. Fld. Dr. #7
Prop. Fld. Dr. #6
Prop. Fld. Dr. #5
Prop. Fld. Dr. #4
Prop. Fld. Dr. #3
Prop. Fld. Dr. #2
Prop. Fld. Dr. #1
Prop. 32' C.I.
Prop. 24" C.M.P.
Prop. 18" C.M.P.
Prop. 24" C.M.P.
Prop. 18" C.M.P.
Prop. 24" C.M.P.
Prop. 18" C.M.P

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

18

ADAMS COUNTY
ADA-247-(8.95)(14.20)





FOR ESTIMATED QUANTITIES SEE SHEET Nº 8-10

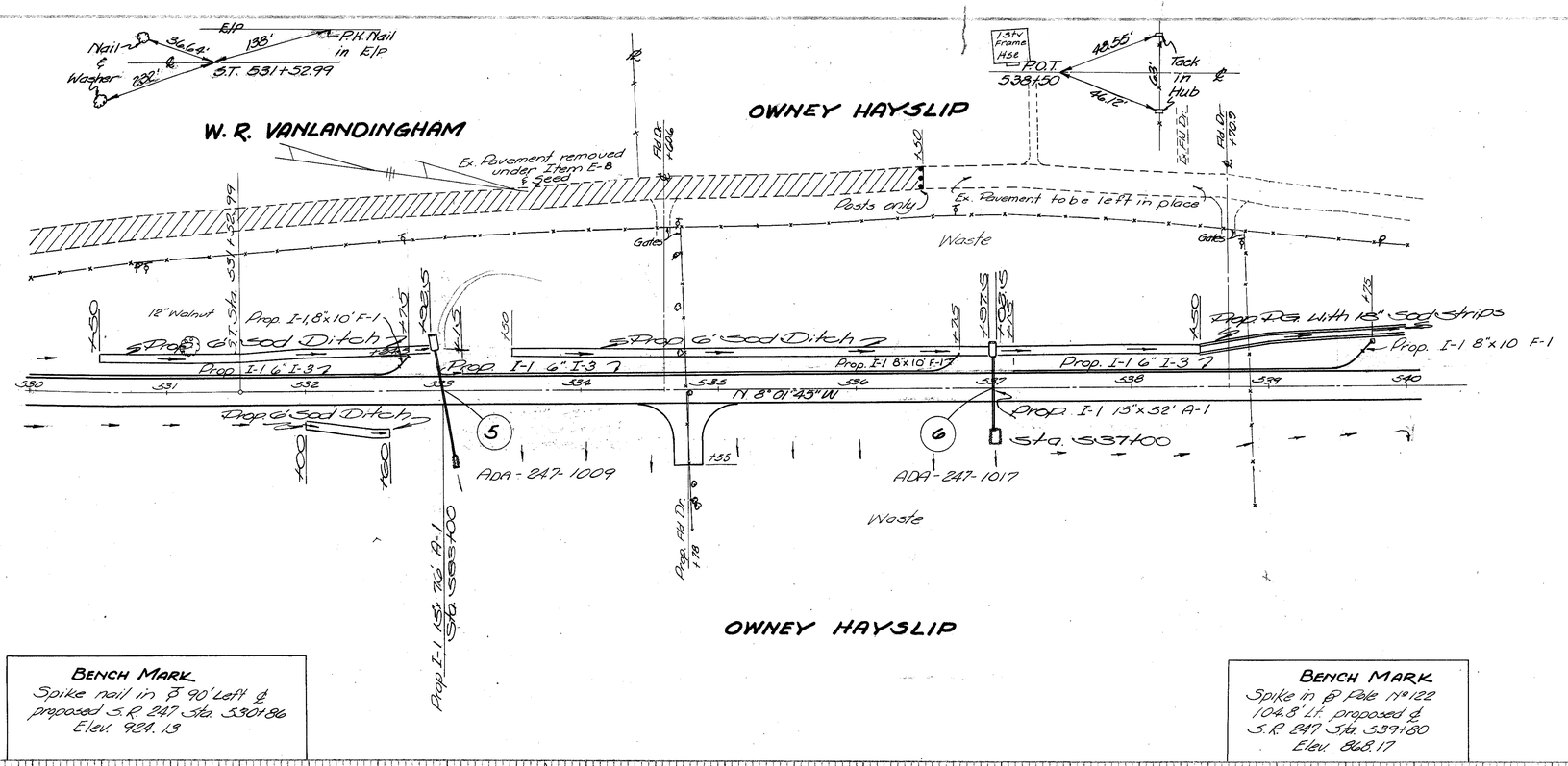
FOR DETAIL OF STRUCTURE Nº 4 SEE SHEET Nº 91

STA. 320+00 TO STA. 330+00

PROJECT DIVISION	STATE	PROJECT		
2	OHIO			

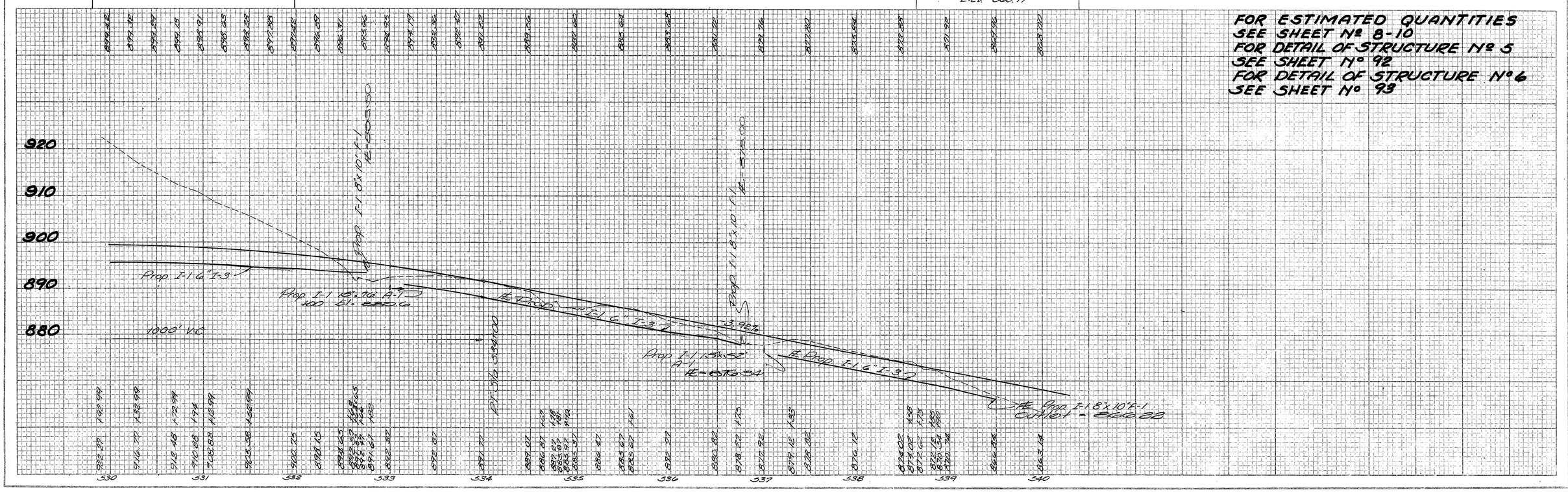
19

ADAMS COUNTY
ADA-247-(8.95)(14.20)



BENCH MARK
Spike nail in Ø 90' Left ℄ proposed S.R 247 Sta. 530+86
Elev. 924.13

BENCH MARK
Spike in Ø Pole 14-122
104.8' Lt. proposed ℄ S.R 247 Sta. 539+80
Elev. 868.17



FOR ESTIMATED QUANTITIES
SEE SHEET Nº 8-10
FOR DETAIL OF STRUCTURE Nº 5
SEE SHEET Nº 92
FOR DETAIL OF STRUCTURE Nº 6
SEE SHEET Nº 93

STA. 530+00 TO STA. 540+00

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

20

ADAMS COUNTY
ADA-247-(8.95)(14.20)

OWNEY HAYSLIP

ESTA JOHNSON

EARNEST WHITE

WINNIFRED HOLMES

OWNEY HAYSLIP

WINNIFRED HOLMES

Tobacco Field

Corn

1 Sty. Frame House

Frame Bldg.

Frame House & Trailer

1-Sty. Frame House

Frame Barn

Frame Barn

Frame Barn

Ex. Pavement to be removed under Item E-8 & Seed

Ex. Pavement to be removed under E-8 & seeded

Posts Only

(To be removed)

Flower Bed

Ex. 30'x12' C.M.P.

Ex. 122'x12' C.M.P.

Iron Pin

Filled Well

Gate

Fence

Ditch

Path

Pos. Dr.

Flat Dr.

Prop. 4' Sidewalk

Prop. 4' Sidewalk with 18" Sod Strips

Prop. I-1 24"x32' B-1 Posts Only

Prop. I-1 6"x16.5' Multi Plate Pipe

Prop. I-1, 6" I-3

Prop. I-1 8'x10' F-1

Prop. I-1 6" I-3

Prop. 12"x36' I-1 Class C-1 Pipe

Prop. F-1 Dr. 7+30

Prop. F-1 Dr. 0+40

Prop. I-1 36"x134' A-1

Prop. I-1 36"x134' A-1

Ex. 52'1.30" Conc. Pipe

Ex. 5'10"x6'1" x 16.5' Multi Plate Pipe

Ex. 36" Conc. Pipe

Ctr. Rd. C-10 +50.5

ADA-247-1029

N 8°01'45" W

P.O.T. 542+00 — 36.41' — 27.5' — 34.10°

P.O.T. 545+85.2 — 35.66' — 36.5' — 27.37'

Tack in Hub

+00 +25 +50 +75 +100 +125 +150 +175 +200

340 341 342 343 344 345 346 347 348 349 350

BENCH MARK

Spike in Ø 34.5' Lt. Proposed new ℄ S.R. 247 Sta. 344+70
Elev. 854.41

FOR ESTIMATED QUANTITIES SEE SHEET Nº 8-10
FOR DETAIL OF STRUCTURE Nº 7 SEE SHEET Nº 94
FOR DETAIL OF CONNECTION Lt ℄ STA. 340+40 SEE SHEET Nº 85
FOR DETAIL OF CONNECTION Lt ℄ STA. 543+97 SEE SHEET Nº 86

860 850 840 830 820

3.92%

3000' V.C.

PC 344+30

PT 350+30

-9.6%

V.P.I. 347+30 854.88

3000 I-1 36"x134' A-1 IE 841.37

IE 3000 I-1 6" I-3 Elev. 841.37

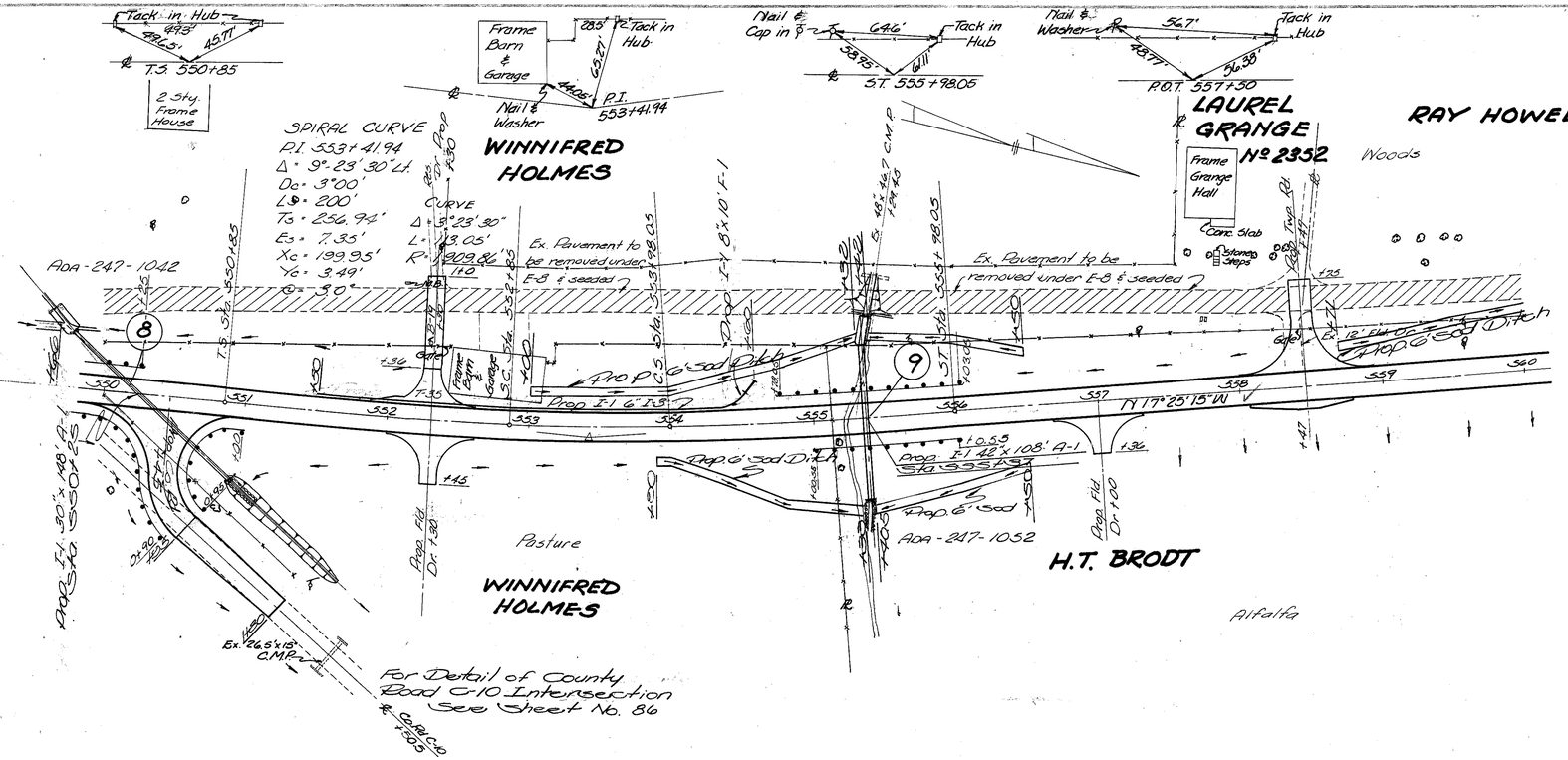
℄ of Prop F-1 8'x10' F-1 El 837.03

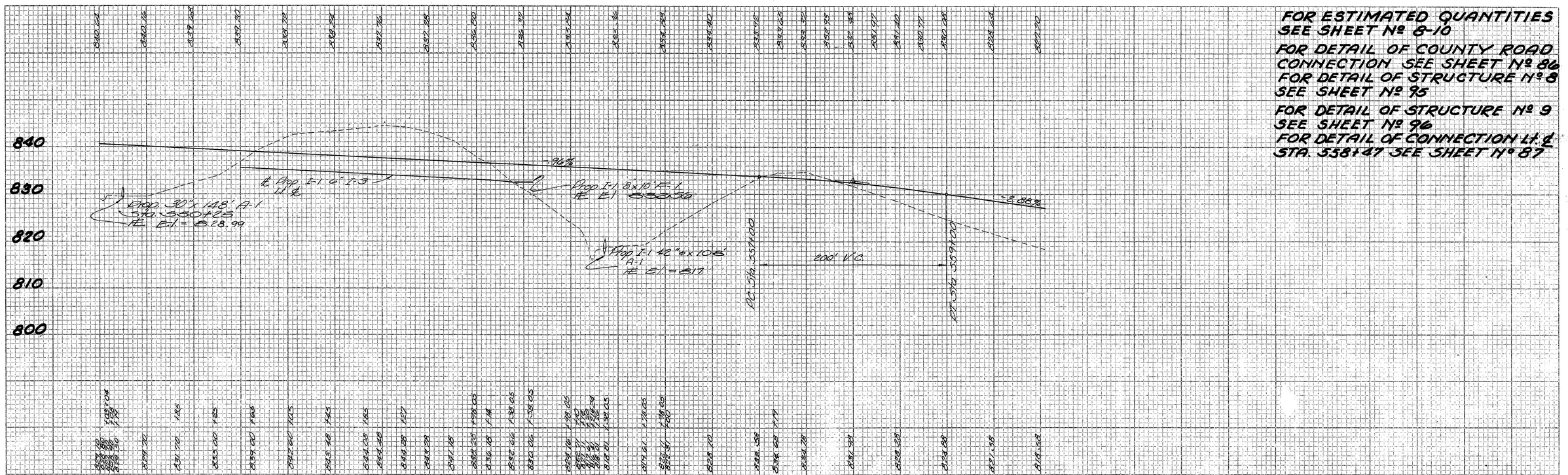
STA. 340+00 TO STA. 350+00

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

21

ADAMS COUNTY
ADA-247-(8.95)(14.20)





FOR ESTIMATED QUANTITIES SEE SHEET Nº 8-10

FOR DETAIL OF COUNTY ROAD CONNECTION SEE SHEET Nº 86

FOR DETAIL OF STRUCTURE Nº 8 SEE SHEET Nº 95

FOR DETAIL OF STRUCTURE Nº 9 SEE SHEET Nº 96

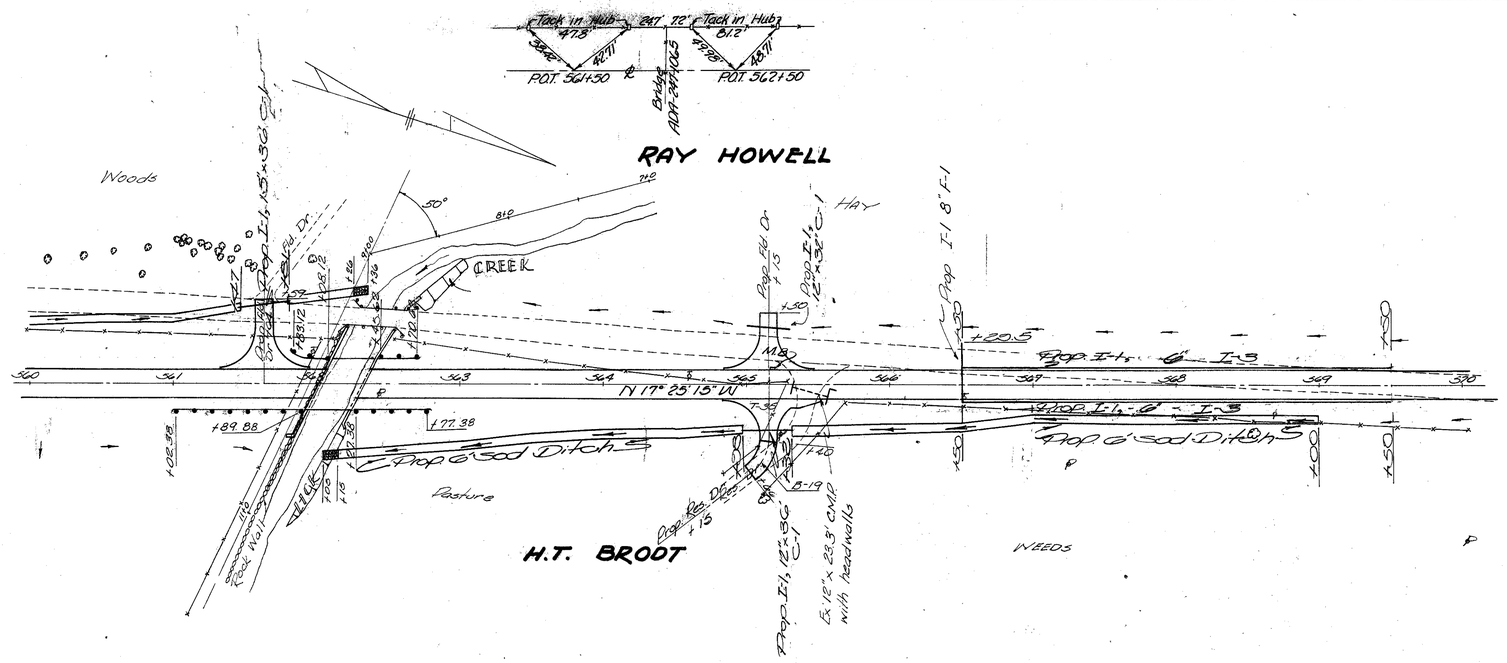
FOR DETAIL OF CONNECTION Lt. ℄ STA. 558+47 SEE SHEET Nº 87

STA. 550+00 TO STA. 560+00

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

22

ADAMS COUNTY
ADA-247-(8.95)(14.20)


Tack in Hub
47.8
Tack in Hub
61.2
P.O.T. 561+50
P.O.T. 562+50
Bridge ADA-247-1065
RAY HOWELL
Woods
50°
CREEK
Prop. Fd. Dr.
Prop. 8 sq. I.s. 45'x36' C.M.P.
Prop. Fd. Dr. 12"x32' C.M.P.
HAY
Prop. F.I. 8' F.I.
Prop. I.s. 6' - I.S.
Prop. I.s. 6' - I.S.
N 17° 25' 15" W
+89.88
177.38
102.38
Prop. Sod Ditch
Prop. Sod Ditch
Pasture
WEEDS
H.T. BRODT
Prop. Res. Dike
Prop. I.s. 12"x36' C.M.P.
Ex. 12"x 23.5' CMP with headwalls
Prop. Concrete Rock Wall Headwalls
Prop. Fd. Dr.
Prop. Fd. Dr.
Prop. Fd. Dr.

FED. RD. DIVISION	STATE	PROJECT		23
2	OHIO			

ADAMS COUNTY
ADA-247-(8.95)(19.20)

T.S. 572+89.84
30.27°
30.15°
37.4'
P.K. Nail

P.I. 576+63.08
37.11'
37.19'
50.3'
P.K. Nail

RAY HOWELL

Prop. 6' Sod Ditch

Ex. Pavement to be removed under F-8 & seeded

Prop. 6' Sod Ditch

Ex. 31.5" Corr. Pipe

Prop. 6' Sod Ditch

Prop. 18" x 34' C.M.P.

Prop. 24" x 40' C.M.P.

N 17°25'15" W

Prop. I-1, 6'-I-3

Prop. 6' Sod Ditch

ADA-247-1081

H.T. BRODT

Prop. I-1, 30"x100' A-1
Sta. 570+75

T.S. Sta. 572+89.84

WILLIAM WOLFE

1/2-Sty. Frame House

S.C. Sta. 574+89.84

Prop. Ft. & Rt. Ø
Ø = 21°35'
Ø = 21°35'

Prop. 12"x 28' C.M.P. (To be removed)

Prop. I-1, 45°x 36' C.M.P.

C.S. Sta. 578+29.12

H.T. BRODT

SPIRAL CURVE
P.I. 576+63.08
Δ = 21°-35' Rt.
Dc = 4°00'
Ls = 200'
Ts = 373.24'
Es = 27.0'
Xc = 199.90'
Yc = 4.65'
θs = 4.0'

CURVE
Δ = 13°35'
L = 339.58'
R = 1,432.40'

BENCH MARK
S.W. Cor. of Conc. Porch Flooring 61' Rt. Trav. S.R. 247 Sta. 574+47
Elev. 852.19

FOR ESTIMATED QUANTITIES
SEE SHEET Nº 8-10

FOR DETAIL OF STRUCTURE Nº 10
SEE SHEET Nº 97

880
870
860
850
840
830

+3.40%

+1.56%

VOI Elev. 833.08

℄ Prop. I-1, 6"x10' I-1 838.95

Ex. 15"x 31.5" Corr. Pipe ℄ 830.87

Prop. I-1, 30"x100' A-1 ℄ 825.00

℄ Prop. I-1, 6" I-3

400' V.C.

P.C. Sta. 570+00

P.T. Sta. 574+00

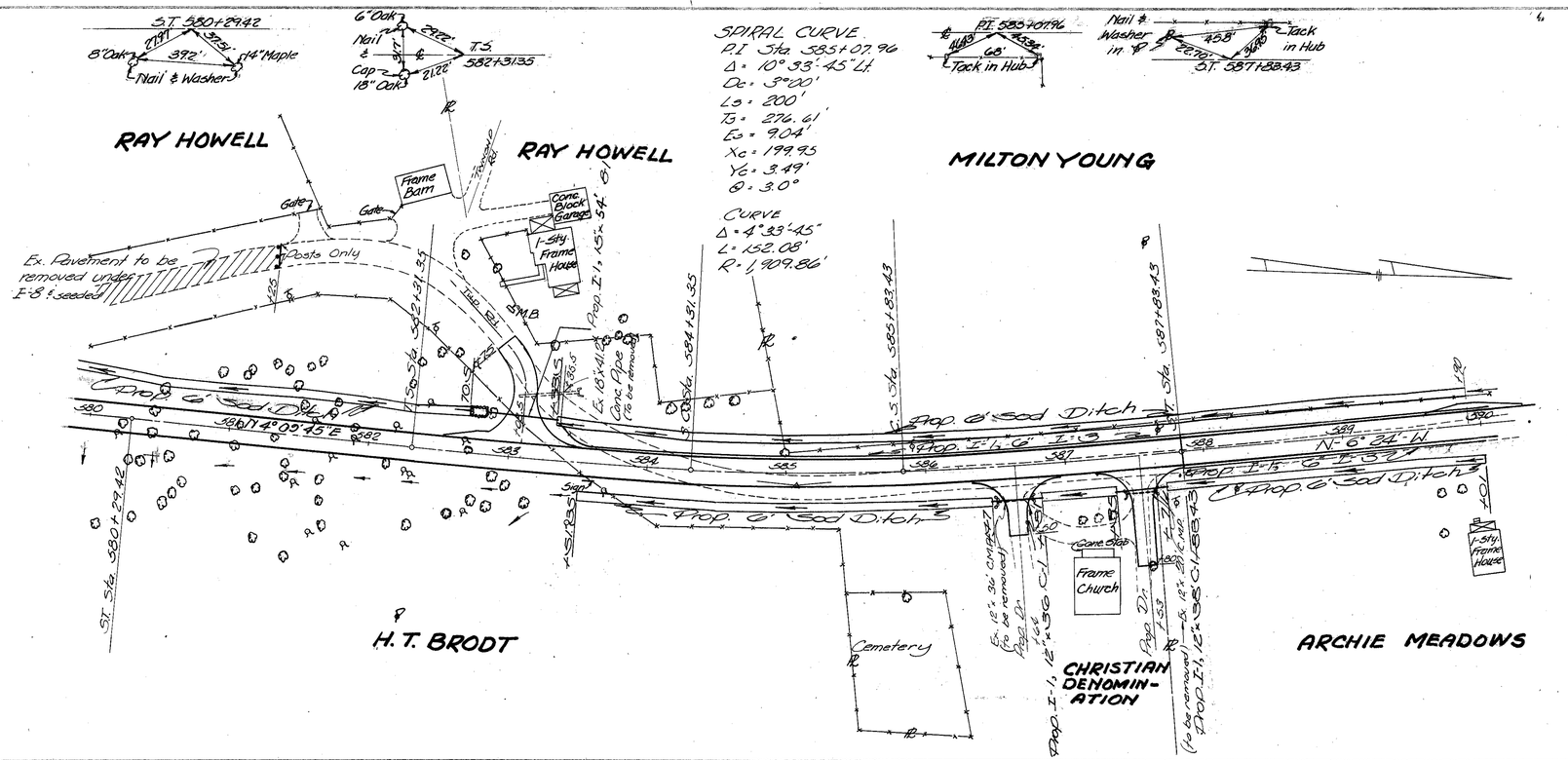
570 571 572 573 574 575 576 577 578 579 580

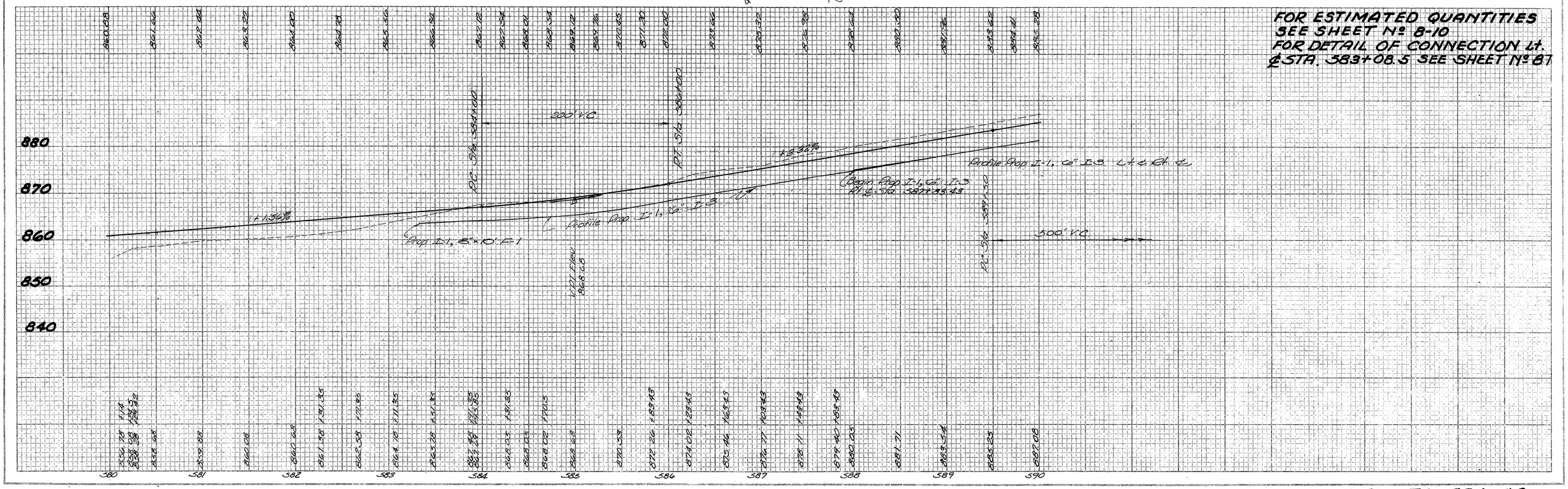
STA 570+00 TO STA 580+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

24

ADAMS COUNTY
ADA-247-(8.95)(14.20)

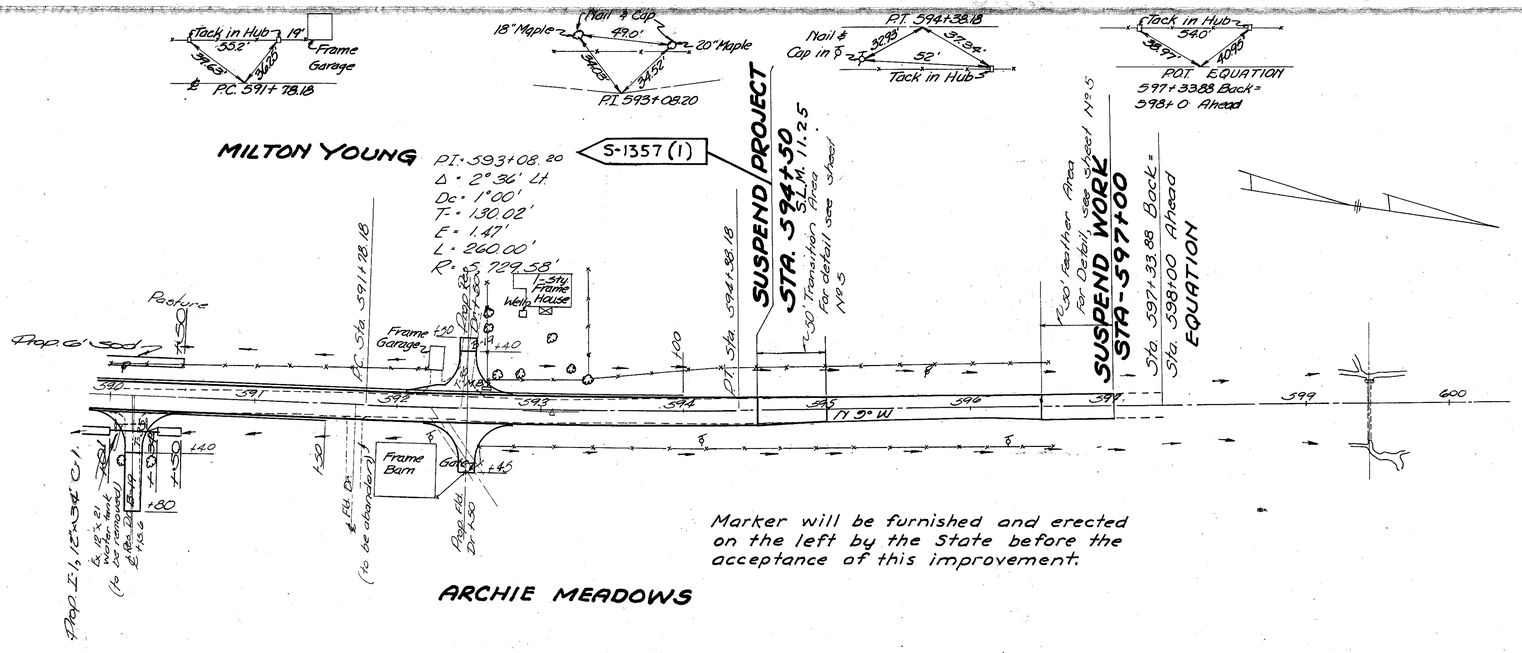




STA 380+00 TO STA 390+00

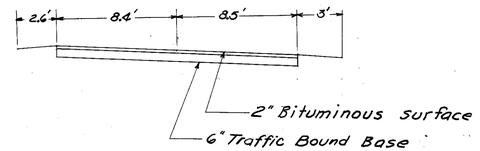
FED. RD. DIVISION	STATE	PROJECT		25
2	OHIO			

ADAMS COUNTY
ADA-247-(8.95)(14.20



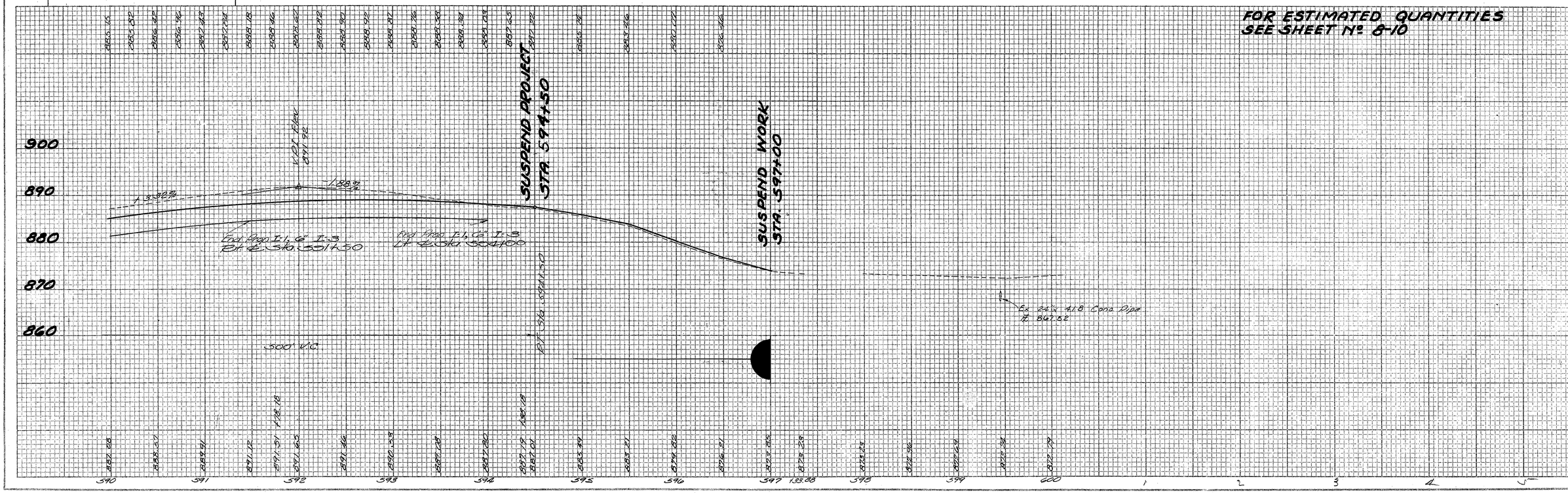
Marker will be furnished and erected on the left by the State before the acceptance of this improvement.

BENCH MARK
Spike in ℄ 27.5 Rt. Proposed new ℄ S.R 247 Sta 390+28
El 889.07



TYPICAL SECTION OF ADJACENT PAVEMENT AT SUSPEND PROJECT

FOR ESTIMATED QUANTITIES SEE SHEET No. 8-10

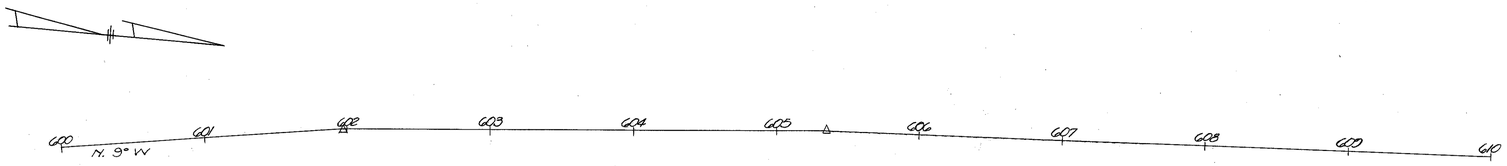


STA. 390+00 TO STA. 600+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

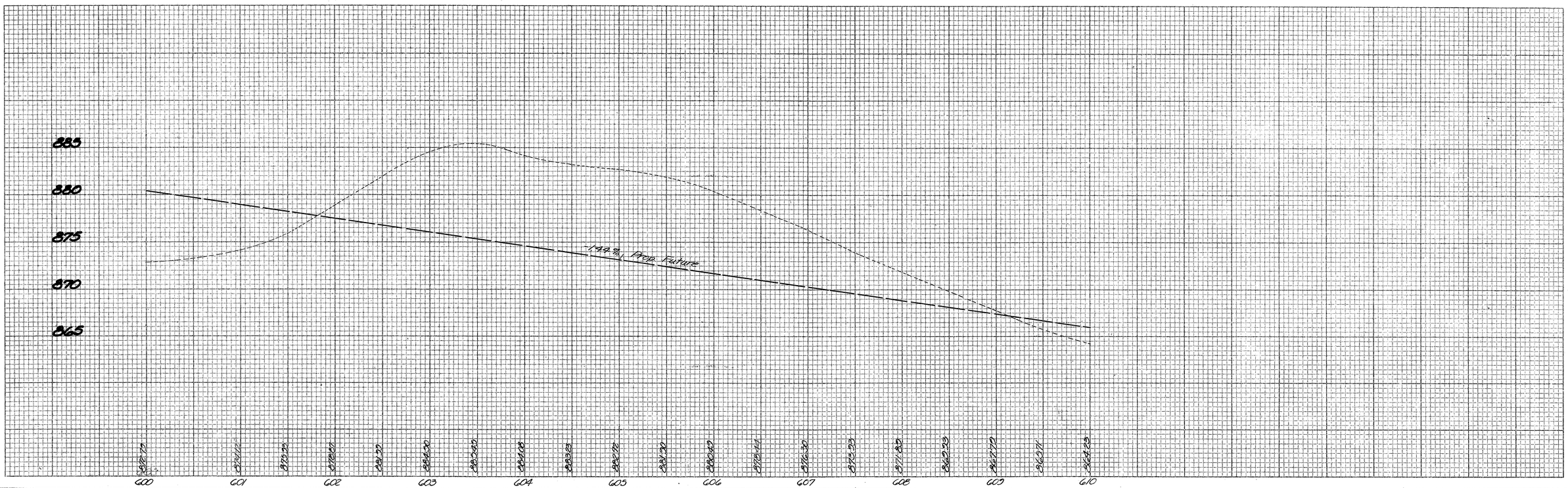
26

ADAMS COUNTY
ADA-247-(8.95)(14.20



PI = 601+37.5
Δ = 4° 08.5' Rt.

PI = 605+34.85
Δ = 2° 10.5' Rt.



STA. 600+00 TO STA. 610+00

PAVEMENT ELEVATIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

27

ADAMS COUNTY
ADA-247-(8.95)(14.20)

CURVE NO. 1

PC=452+02.37 D.T.=496+19.04
Δ=307°30' Lt. Dc=0°45'

Elev. Lt. Edge	Width	Station	Profile Elevation	Width	Elev. Rt. Edge
813.34	10'	451+0237	813.50	10'	813.34
813.21		+50	813.37		813.31
813.07		452+00	813.23		813.28
813.06		PC+02.37	813.22		813.27
813.00		+25	813.16		813.26
812.96		+42.37	813.11		813.26
812.92		+52.37	813.08		813.24
812.86		+75			813.18
812.79		453+00			813.11
812.72		+25			813.04
812.65		+50			812.97
812.58		+75			812.90
812.51		454+00			812.83
812.44		+25			812.76
812.37		+50			812.69
812.30		+75			812.62
812.23		455+00			812.55
812.16		+25			812.48
812.09		+50			812.41
812.04		+60.04	812.20		812.36
812.02		+75	812.18		812.34
811.95		456+00	812.11		812.27
811.90		+10.04	812.06		812.22
811.88		+25	812.04		812.20
811.81		+50	811.97		812.13
811.77		+75	811.93		812.09
811.80		457+00	811.96		812.12
811.86	10'	+19.04	812.02	10'	812.18

CURVE NO. 2

T.S.=514+35.20 C.S.=519+23.12
S.C.=516+35.20 S.T.=521+23.12
Δ=19°31' Rt. Dc=4°00'

Elev. Lt. Edge	Width	Station	Profile Elevation	Width	Elev. Rt. Edge
833.06	10'	513+50	833.22	10'	833.06
833.50		+74.20	833.66		833.50
834.03		514+00	834.12		833.96
834.54		+25	834.57		834.41
834.75		+35.20	834.75		834.58
835.07		+50	835.02		834.86
835.61		+75.20	835.47		835.31
836.14		515+00			835.76
836.48		+15.20			836.05
836.72		+25			836.25
837.52		+55.20			836.95
838.12		+75			837.45
838.70		+95.20			838.07
839.85		516+25			839.05
840.25		+35.20			839.41
840.80		+50			839.86
841.70		+75			840.05
842.87		517+00			842.03
844.02		+25			843.18
845.27		+50			844.43
846.50		+75			845.75
848.00		518+00			847.16
849.45		+25			848.61
850.00		+50			850.06
852.35		+75			851.51
853.80		519+00			852.96
855.14		+23.12			854.30

CURVE NO. 2 (con't.)

Elev. Lt. Edge	Width	Station	Profile Elevation	Width	Elev. Rt. Edge
856.61	10'	+50		10'	855.86
857.32		+68.12			856.62
857.97		+75			857.31
858.51		520+03.12			858.04
860.70		+25			860.81
861.63		+43.12			861.26
863.43		+75	863.27		863.11
863.88		+88.12	863.74		863.58
864.50		521+00	864.72		864.56
866.06		+23.12	866.06		865.90
867.55		+50	867.62		867.46
868.03		+75	868.07		868.01
869.44	10'	+84.12	869.60	10'	869.44

CURVE NO. 3

T.S.=524+04.34 C.S.=520+52.00
S.C.=526+04.34 S.T.=531+52.00
Δ=11°32'45" Lt. Dc=4°00'

Elev. Lt. Edge	Width	Station	Profile Elevation	Width	Elev. Rt. Edge
881.06	10'	521+00	882.12	10'	881.96
882.14		+03.34	882.90		882.74
883.38		+25	883.54		883.44
884.74		+50	884.90		884.86
885.54		+64.34	885.70		885.70
886.04		+75	886.20		886.24
887.27		522+00	887.43		887.55
887.48		+04.34	887.64		887.78
888.45		+25			888.78
889.33		+44.34			889.76
889.57		+50			890.02
890.62		+75			891.16
891.00		+84.34			891.57
891.62		523+00			892.24
892.53		+24.34			893.23
892.55		+25			893.26
893.42		+50			894.21
893.90		+64.34			894.74
894.24		+75			895.08
894.90		527+00			895.83
895.68		+25			896.62
896.31		+50			897.15
896.88		+75			897.72
897.13		+87			897.97
897.38		528+00			898.22
897.83		+25			898.67
898.22		+50			899.06
898.55		+75			899.39
898.81		529+00			899.65
899.02		+25			899.86
899.16		+50			900.00
899.17		+52.00			900.01
899.24		+75			900.01
899.26		+92.00			899.96
899.26		530+00			899.94
899.23		+25			899.83
899.20		+32.00			899.77
899.13		+50			899.64
898.98		+72.00			899.41
898.57		+75			899.00
898.75	10'	531+00		10'	899.00

CURVE NO. 3 (con't.)

Elev. Lt. Edge	Width	Station	Profile Elevation	Width	Elev. Rt. Edge
898.61	10	+12.00	898.77	10	898.01
898.47		+25	898.63		898.73
898.12		+50	898.28		898.29
898.08		+52.00	898.24		898.24
897.72		+75	897.88		897.85
897.26		532+00	897.42		897.30
896.97		+13.00	897.13		896.97
896.73		+25	896.88		896.73
896.15	10'	+50	896.31	10'	896.15

CURVE NO. 4

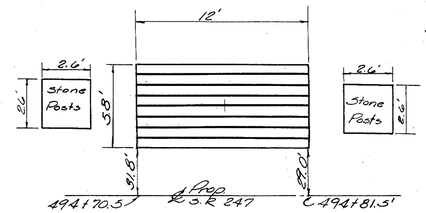
T.S.=550+85 C.S.=553+08.05
S.C.=552+45.5 S.T.=555+08.05
Δ=5°23'30" Lt. Dc=3°00'

Elev. Lt. Edge	Width	Station	Profile Elevation	Width	Elev. Rt. Edge
840.48	10'	550+00	840.64	10'	840.48
840.25		+24	840.41		840.25
840.00		+50	840.16		840.07
839.76		+75	839.92		839.80
839.66		+85	839.82		839.82
839.52		551+00	839.68		839.72
839.28		+25	839.44		839.54
839.04		+50	839.20		839.36
838.91		+63			839.23
838.80		+75			839.18
838.51		552+06			838.96
838.32		+25			838.82
838.13		+45			838.67
837.84		+75			838.46
837.74		+85			838.38
837.60		553+00			838.24
837.38		+25			838.02
837.12		+50			837.76
836.88		+75			837.52
836.66		+08.05			837.30
836.40		554+25			836.08
836.27		+38.05			836.81
836.16		+50			836.68
835.80		+78.05			836.34
835.68		555+00			836.08
835.56		+13			835.93
835.32		+38.05	835.48		835.62
835.20		+50	835.36		835.48
834.96		+75	835.12		835.17
834.74		+08.05	834.90		834.90
834.76		556+00	834.88		834.87
834.43		+25	834.50		834.52
834.30		+38.05	834.46		834.36
834.10		+58.05	834.26		834.10
833.95	10'	+75	834.11	10'	833.95

CURVE NO. 5

T.S.=572+85.84 C.S.=578+25.42
S.C.=574+85.84 S.T.=580+25.42
Δ=21°35' Lt. Dc=4°00'

Elev. Lt. Edge	Width	Station	Profile Elevation	Width	Elev. Rt. Edge
843.70	10'	572+38.84	843.86	10'	843.70
844.48		+50	844.58		844.43
845.59		+75	845.43		845.27
845.03		+80.84	845.03		845.77
846.31		573+00	846.28		846.12
847.41		+20.84	847.27		847.11
848.12		+50			847.76
848.81		+80.84			848.38
848.88		+75			848.64
850.15		574+00.84			849.38
850.63		+25			850.01
851.80		+50.84			850.63
852.16		+75			851.37
852.58		+80.84			851.74
852.84		575+00			852.00
853.45		+25			852.61
854.02		+50			853.18
854.57		+75			853.73
855.09		576+00			854.25
855.58		+25			854.74
856.04		+50			855.20
856.48		+75			855.67
856.88		577+00			856.04
857.27		+25			856.43
857.66		+50			856.82
858.05		+75			857.21
858.44		578+00			857.60
858.80		+20.42			858.06
859.15		+50			858.38
859.38		+70.42			858.68
859.46		+75			858.77
859.86		579+00.42			859.31
860.07		+25			859.55
860.36		+45.42			859.93
860.67		+75			860.33
860.85		+80.42	860.71		860.55
860.98		580+00	860.88		860.72
861.34		+20.42	861.32		861.18
861.61		+50	861.66		861.50
861.03		+75	862.05		861.89
862.13	10'	+90.42	862.20	10'	862.13



Note: Ex. Cattle gate to be removed under Item S-24 and material to be left on owners land.

PAVEMENT ELEVATIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

28

ADAMS COUNTY
ADA-247-(8.93)(14.20)

CURVE NO. 6

T.S. = 582+31.35 C.S. = 585+83.43
S.C. = 584+31.35 S.T. = 587+83.43
Δ = 10°33'45" Lt. Dc = 3°00'

Elev. Lt. Edge	Width	Station	Profile Elevation	Width	Elev. Rt. Edge
863.38	10'	581+70.35	863.34	10'	863.38
863.84		582+00	864.00		863.92
864.23		+25	864.30		864.37
864.33		+31.35	864.40		864.40
864.62		+50	864.78		864.82
864.95		+71.35	865.11		865.21
865.01		+75	865.17		865.28
865.40		583+00	865.56		865.72
865.58		+11.35	865.74		865.83
865.75		+25	866.05		866.17
866.20		+51.35	866.36		866.65
866.57		+75			867.07
866.83		+91.35			867.37
866.96		584+00			867.52
867.38		+25			868.00
867.40		+31.35			868.13
867.85		+50			868.45
868.38		+75			868.02
868.96		585+00			868.60
869.60		+25			870.24
870.20		+50			870.03
871.04		+75			871.68
871.31		+83.43			871.05
871.84		586+00			872.40
872.62		+23.43			873.16
873.50		+50			873.08
873.74		+63.43			874.30
874.33		+75			874.75
875.27		587+03.43			875.63
875.89		+25	876.15		876.20
876.60		+43.43	876.76		876.86
876.82		+50	876.98		877.06
877.65		+75	877.81		877.83
877.92		+83.43	878.08		878.08
878.48		588+00	878.64		878.60
879.31		+25	879.47		879.36
879.86	10'	+44.43	880.12	10	879.96

CURVE NO. 7

P.C. = 551+78.18 P.T. = 554+38.18
Δ = 2°36' Lt. Dc = 1°00'

Elev. Lt. Edge	Width	Station	Profile Elevation	Width	Elev. Rt. Edge
886.87	10'	551+78.18	887.03	10'	886.87
887.27		552+00	887.43		887.32
887.68		+25	887.84		887.78
888.02		+50	888.18		888.17
888.33		+78.18	888.49		888.54
888.51		553+00	888.67		888.77
888.66		+25	888.82		888.97
888.67		+28.18	888.83		888.99
888.76		+75	888.92		889.08
888.71		554+00	888.87		889.03
888.60		+25	888.76		888.87
888.42		+50	888.58		888.63
888.18		+75	888.34		888.34
887.87		555+00	888.03		887.98
887.49		+25	887.65		887.54
887.27		+38.18	887.43		887.30
887.06		+50	887.22		887.06

T.S. Sta 751+01.00
S.C. Sta 753+01.00
Δ = 10°03'30" Lt.

C.S. Sta 754+36.28
S.T. Sta 756+36.28
Dc = 3°00'

Elev. Lt. Edge	Width	Station	Profile Elevation	Width	Elev. Rt. Edge
874.00	10'	750+40	874.16	10'	874.00
873.87		+50	874.03		873.90
873.55		+75	873.71		873.64
873.22		751+01	873.38		873.38
872.91		+25	873.07		873.13
872.71		+41	872.87		872.97
872.59		+50	872.75		872.87
872.27		+75	872.43		872.61
872.13		+81	872.35		872.54
871.95		752+00			872.35
871.68		+21			871.13
871.63		+25			872.09
871.31		+50			871.83
871.17		+61			871.71
870.99		+75			871.57
870.66		753+01			871.30
870.35		+25			870.99
870.03		+50			870.67
869.71		+75			870.35
869.39		754+00			870.03
869.07		+25			869.71
868.93		+36.28			869.57
868.75		+50			869.36
868.43		+75			868.98
868.41		+76.28			868.95
868.11		755+00			868.60
867.90		+16.28			868.35
867.79		+25			868.22
867.47		+50	867.63		867.84
867.39		+56.28	867.55		867.74
867.15		+75	867.31		867.46
866.88		+96.28	867.04		867.14
866.83		756+00	866.99		867.08
866.51		+25	866.67		866.70
866.37		+36.28	866.53		866.53
866.19		+50	866.35		866.31
865.87		+75	866.03		865.93
865.58		+97.28	865.74		865.58
865.55	10'	757+00	865.71	10'	865.55

T.S. Sta 780+76.92
S.C. Sta 782+76.92
Δ = 18°40'45" Lt.

C.S. Sta 785+43.90
S.T. Sta 787+43.90
Dc = 4°00'

Elev. Lt. Edge	Width	Station	Profile Elevation	Width	Elev. Rt. Edge
814.47	10'	780+00	814.63	10'	814.47
815.14		+15.92	815.90		815.74
818.47		+50	818.63		818.57
820.62		+76.92	820.78		820.78
822.47		781+00	822.63		822.71
823.82		+16.92	823.98		824.12
826.47		+50			826.88
827.02		+56.92			827.45
830.12		+96.92			830.50
830.47		782+00			831.05
833.42		+36.92			834.12
834.47		+50			835.22
836.62		+76.92			837.46
838.47		783+00			839.21
840.44		+25			841.28
842.33		+50			843.17
844.16		+75			845.00
845.98		784+00			846.77
847.62		+25			848.46
849.25		+50			850.09
850.81		+75			851.65
852.30		785+00			853.14
853.71		+25			854.55
854.75		+43.90			855.59
855.08		+50			855.90
856.36		+75			857.09
856.80		+83.90			857.50
857.58		786+00			858.23
858.08		+23.90			859.25
858.74		+25			859.30
859.82		+50			860.30
860.39		+63.90			860.82
860.84		+75			861.23
861.78		787+00	861.94		862.09
861.92		+03.90	862.08		862.22
862.66		+25	862.82		862.88
863.28		+43.90	863.44		863.44
863.48		+50	863.64		863.62
864.22		+75	864.38		864.30
864.87		788+00	865.03		864.88
865.02	10'	+04.90	865.18	10'	865.02

T.S. Sta 800+54.15
S.C. Sta 802+54.15
Δ = 18°11'15" Rt.

C.S. Sta 805+08.84
S.T. Sta 807+08.84
Dc = 4°00'

Elev. Lt. Edge	Width	Station	Profile Elevation	Width	Elev. Rt. Edge
823.63	10'	799+93.15	823.79	10'	823.63
823.27		800+00	823.41		823.25
821.97		+25	822.05		821.89
820.77		+50	820.78		820.62
820.57		+54.15	820.57		820.41
819.68		+75	819.61		819.45
819.16		+88	819.04		818.88
818.91		+94.15	818.77		818.61
818.70		801+00			818.38
818.39		+08			818.05
817.81		+25			817.41
817.50		+34.15			817.07
817.02		+50			816.53
816.30		+74.15			815.74
816.32		+75			815.75
815.73		802+00			815.07
815.42		+14.15			814.72
815.23		+25			814.49
814.82		+50			813.99
814.76		+54.15			813.92
814.45		+75			813.61
814.15		803+00			813.31
813.90		+25			813.12
813.86		+50			813.02
813.80		+75			813.02
813.95		804+00			813.11
814.15		+25			813.31
814.44		+50			813.60
814.83		+75			813.99
815.31		805+00			814.47
815.50		+08.84			814.66
815.84		+25			815.05
815.44		+48.84			815.73
815.43		+50			815.73
817.13		+75			816.51
817.22		+88.84			816.65
817.88		806+00			817.38
818.80		+25			818.35
818.93		+28.84			818.50
819.78		+50			819.42
820.58		+68.84	820.44		820.28
820.87		+75	820.75		820.59
822.04		807+00	822.01		821.85
822.49		+08.84	822.49		822.33
823.33		+25	823.37		823.21
824.71		+50	824.82		824.66
825.89	10'	+69.84	826.05	10'	825.89

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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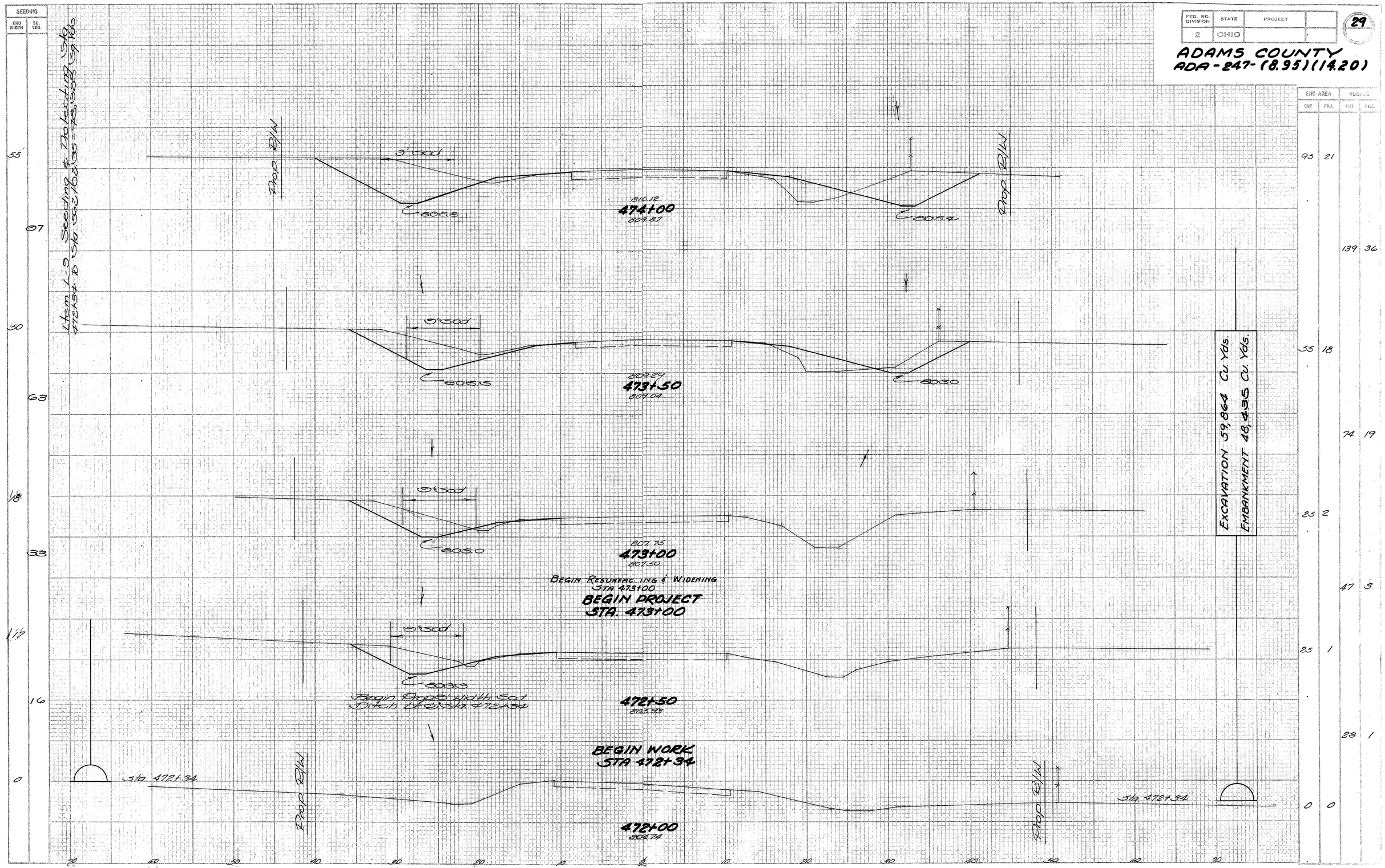
ADAMS COUNTY
ADA-247-(8.95)(14.20)



STA 472+00 TO STA 474+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

30

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
41		43	13		
81					
				88	36
46					
				52	26
93					
				110	46
54					
		76	23		
103					
				168	47
57					
				105	28
104					
				117	32
55					
		21	28		
102				108	46
55		05	21		

Sta. 474+00

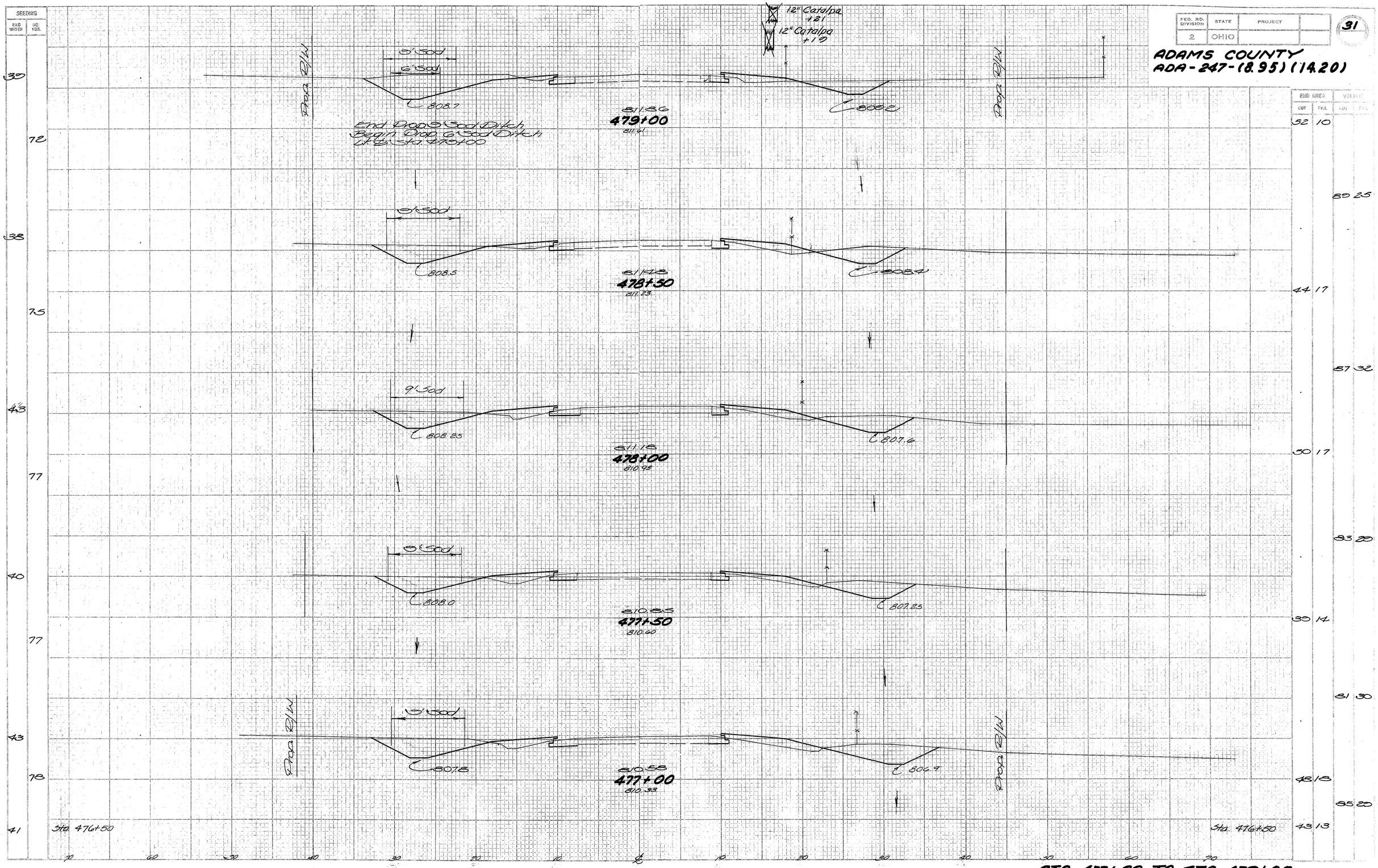
Sta. 474+00

STA. 474+50 TO STA. 476+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

31

ADAMS COUNTY
ADA-247-(8.95)(14.20)

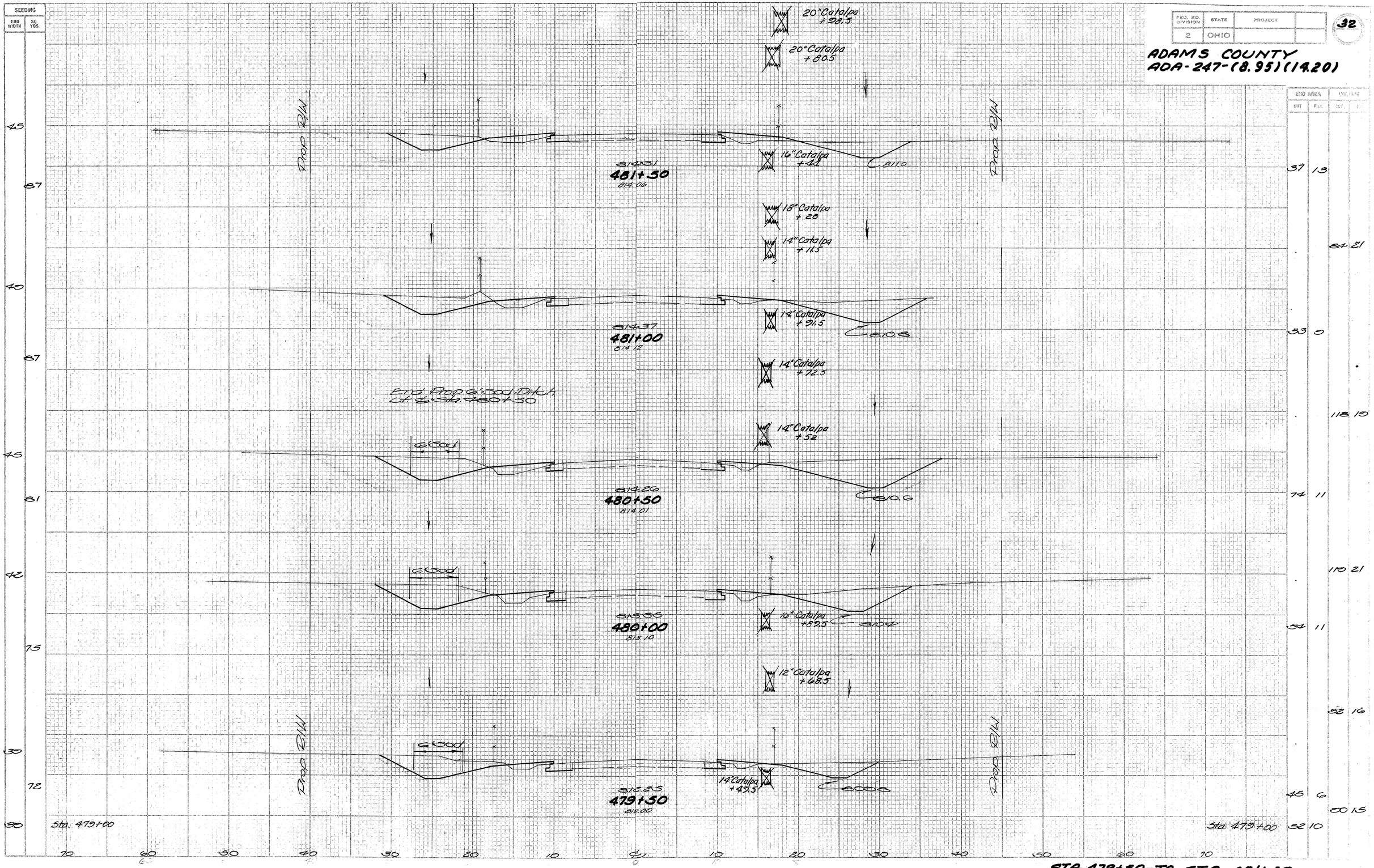


STA. 477+00 TO STA. 479+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

32

ADAMS COUNTY
ADA-247-(8.95)(14.20)

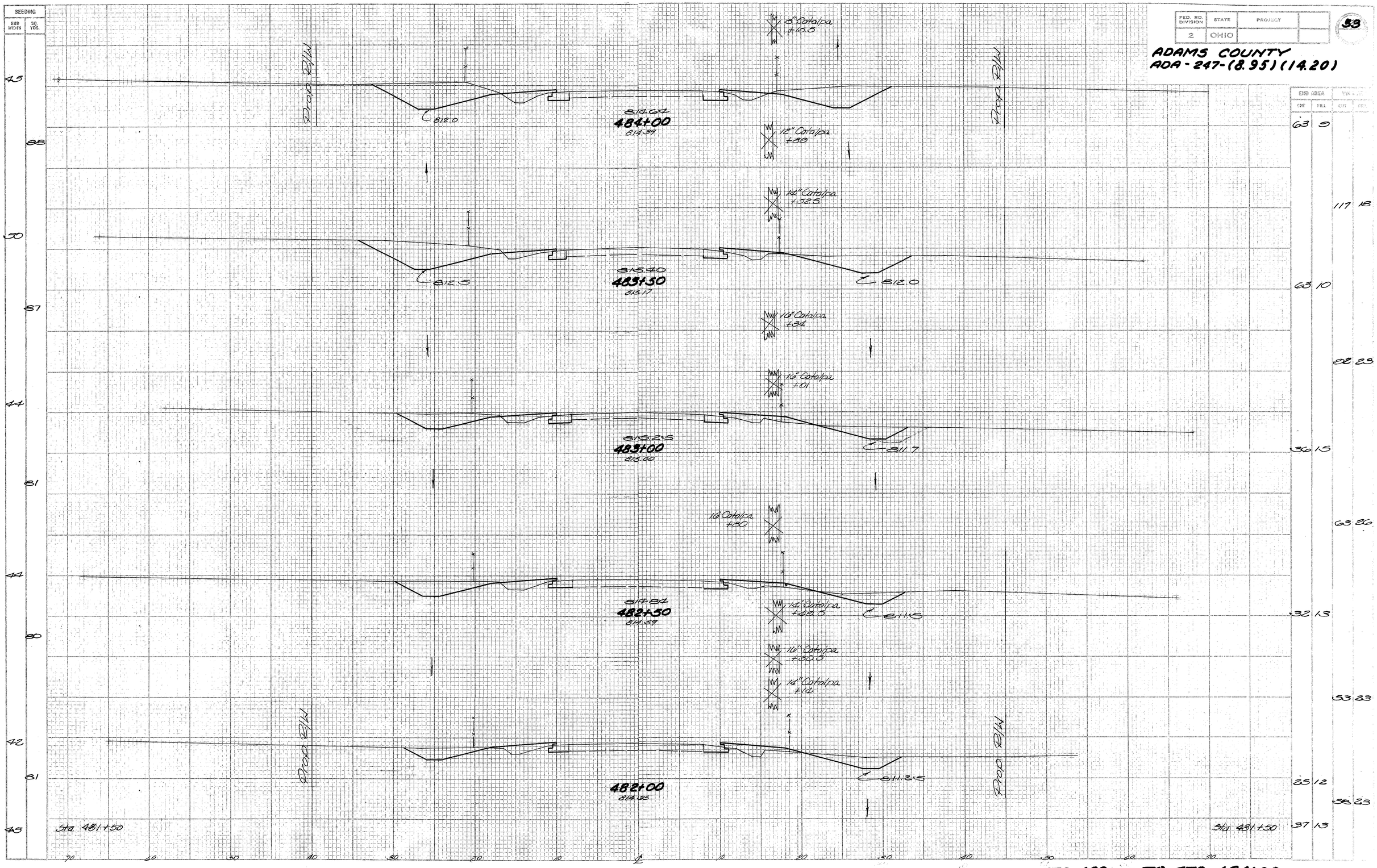


STA. 479+50 TO STA. 481+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

33

ADAMS COUNTY
ADA-247-(8.95)(14.20)



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
63	9		
		117	18
63	10		
		92	23
36	15		
		63	26
32	13		
		53	23
25	12		
		58	23
37	13		

STA. 482+00 TO STA. 484+00

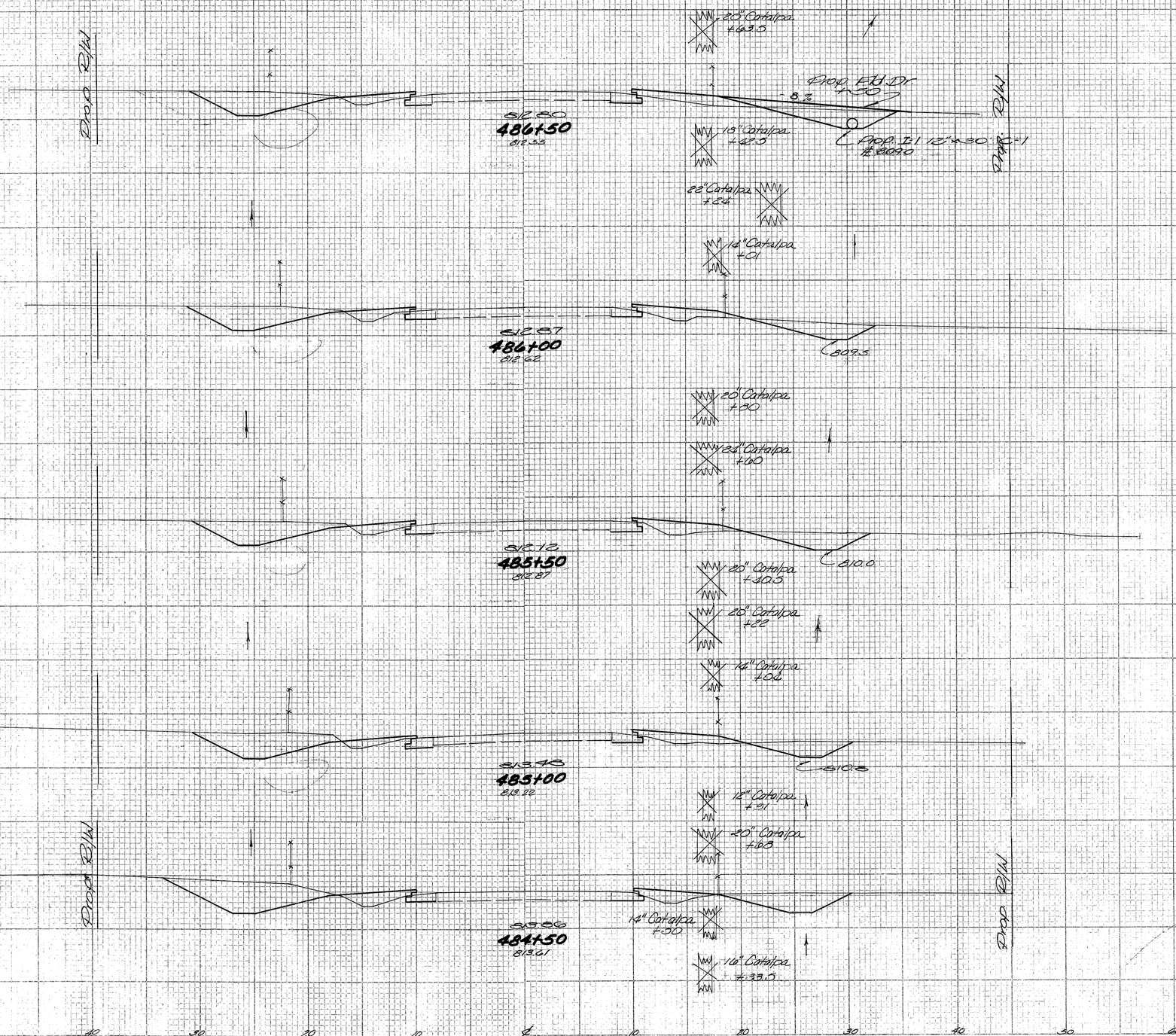
FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

34

ADAMS COUNTY
ADA-247-(8.95)(14.20)

PROP. I-1 - 22"x13"- 50' Class G-1
STA-486+72
For Detail, See Sheet No. 88

SEEDING	
END WIDTH	SQ. YDS.
48	
80	
45	
83	
44	
80	
42	
81	
45	
83	
45	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
			14
40	14		
		74	25
40	13		
		72	34
37	13		
		60	24
37	13		
		53	25
32	14		
		107	22
63	9		

STA. 484+50 TO STA. 486+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

35

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING	
END WIDTH	SQ. YDS.
40	
	70
36	
	67
36	
	74
44	
	85
47	
	88
48	

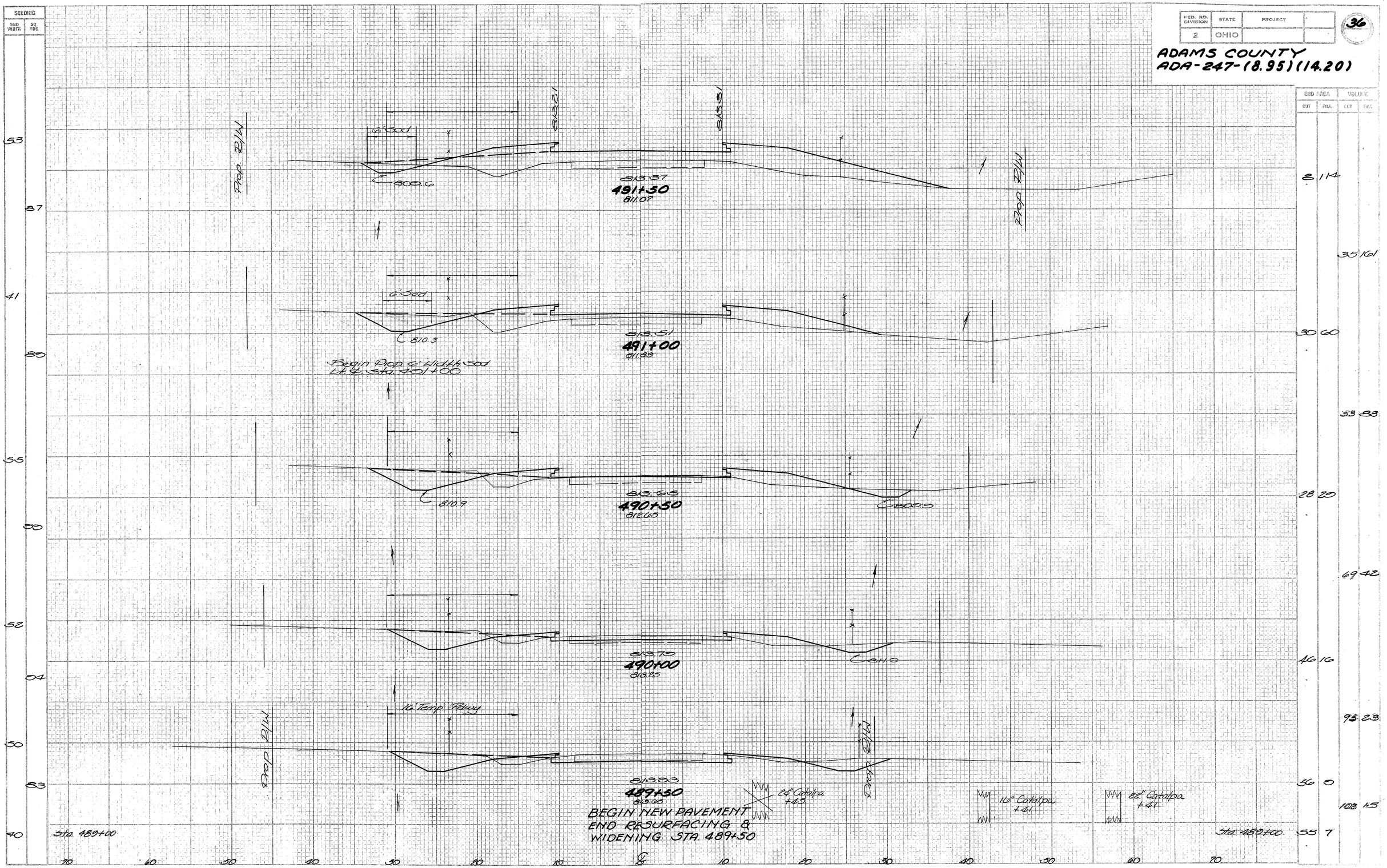
END AREA		VOLUME	
CUT	FILL	CUT	FILL
55	7		
		81	13
32	7		
		51	10
33	13		
		52	23
33	12		
		63	23
35	13		
		70	25
40	14		

STA. 487+00 TO STA. 489+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

36

ADAMS COUNTY
ADA-247-(8.95)(14.20)



STA. 489+50 TO STA 491+50

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

37

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
		23 270			
65					
	120				82 488
64					
	110			11 362	
					23 511
64					
	115				14 330
					22 476
60					
	107			10 234	
					19 374
55					
	100			10 180	
					17 278
53				8 114	

Sta. 491+50

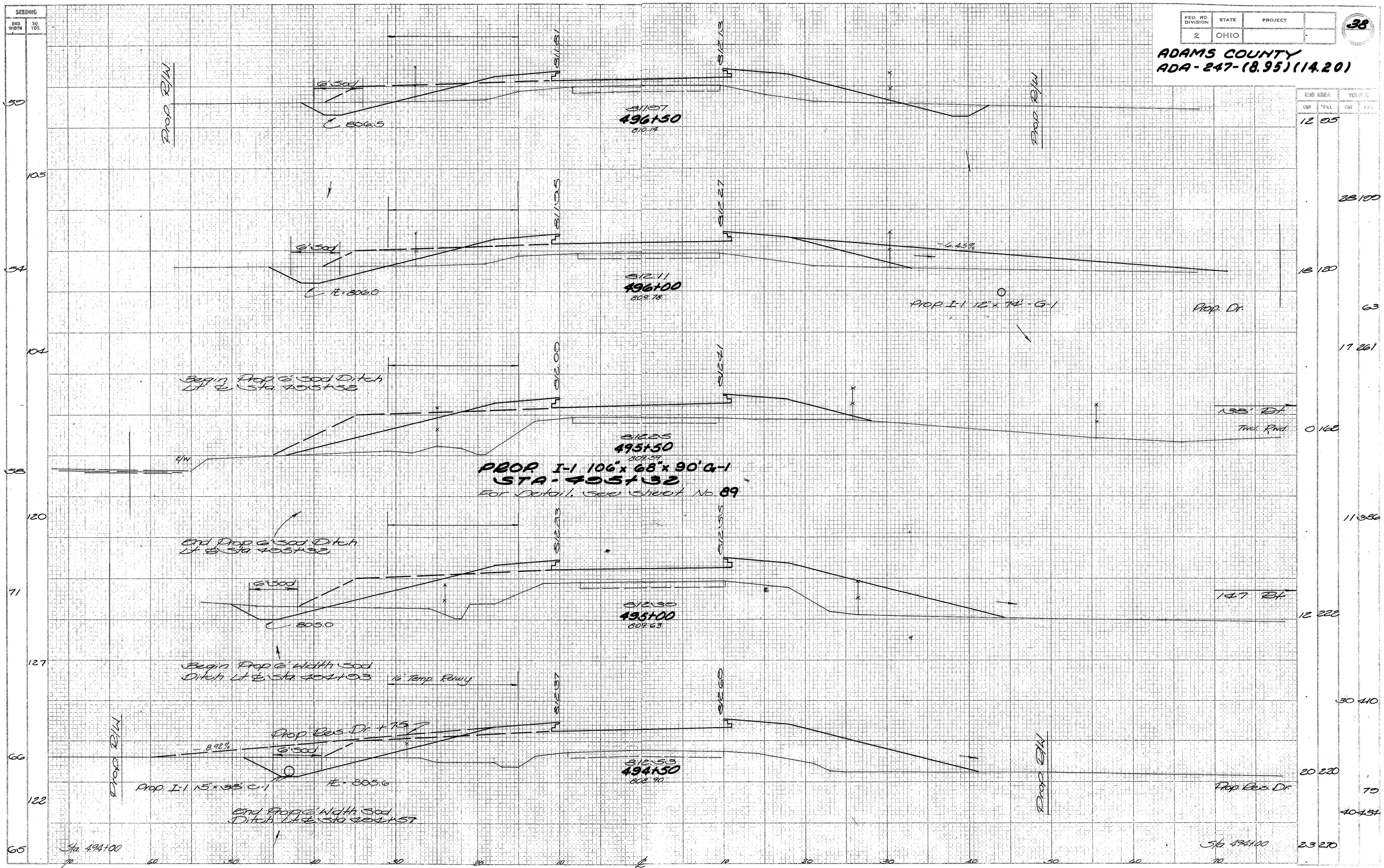
Sta. 491+50

STA. 492+00 TO STA. 494+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

38

ADAMS COUNTY
ADA-247-(8.95)(14.20)

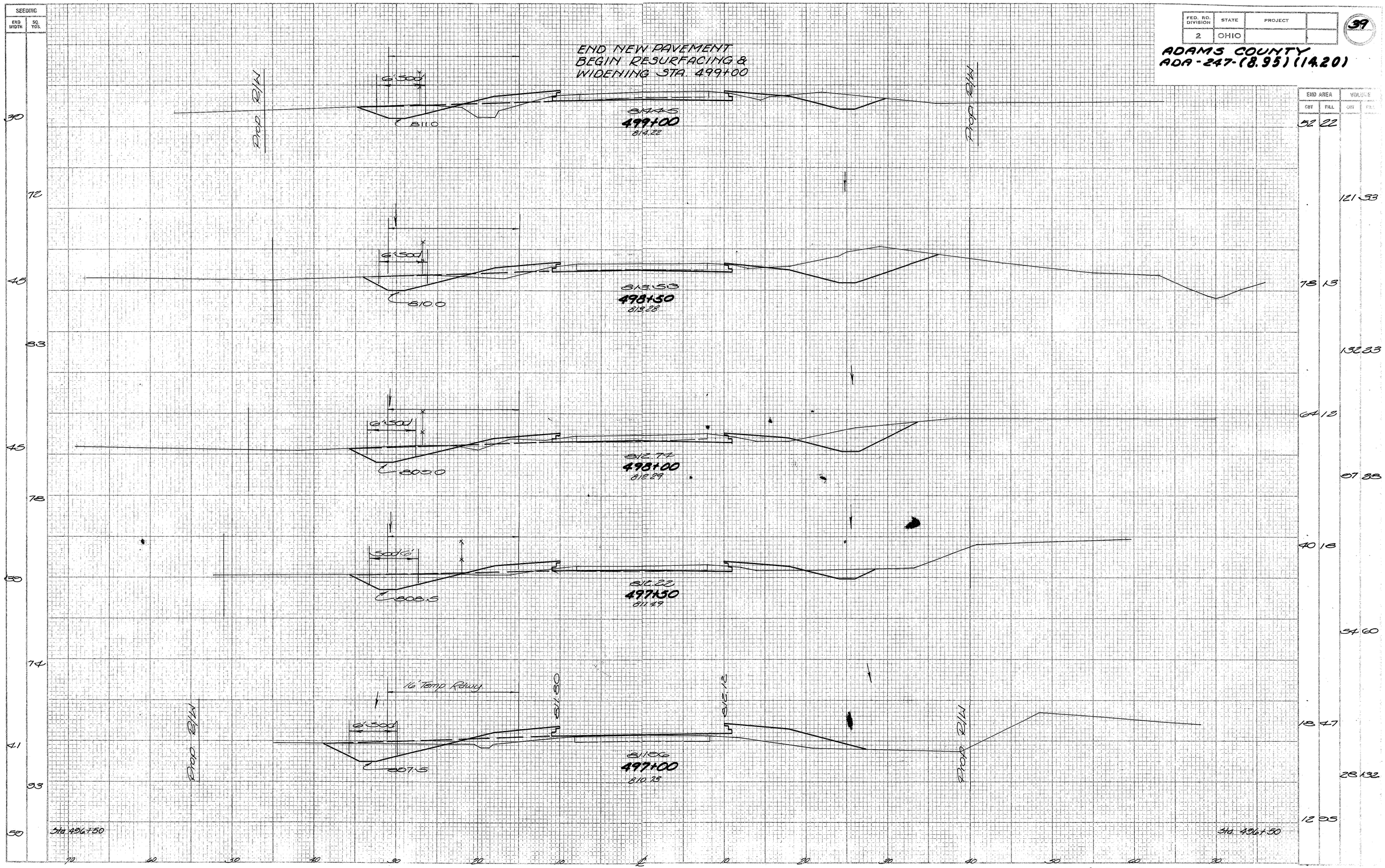


STA. 494+50 TO STA. 496+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

39

ADAMS COUNTY
ADA-247-(8.95)(14.20)



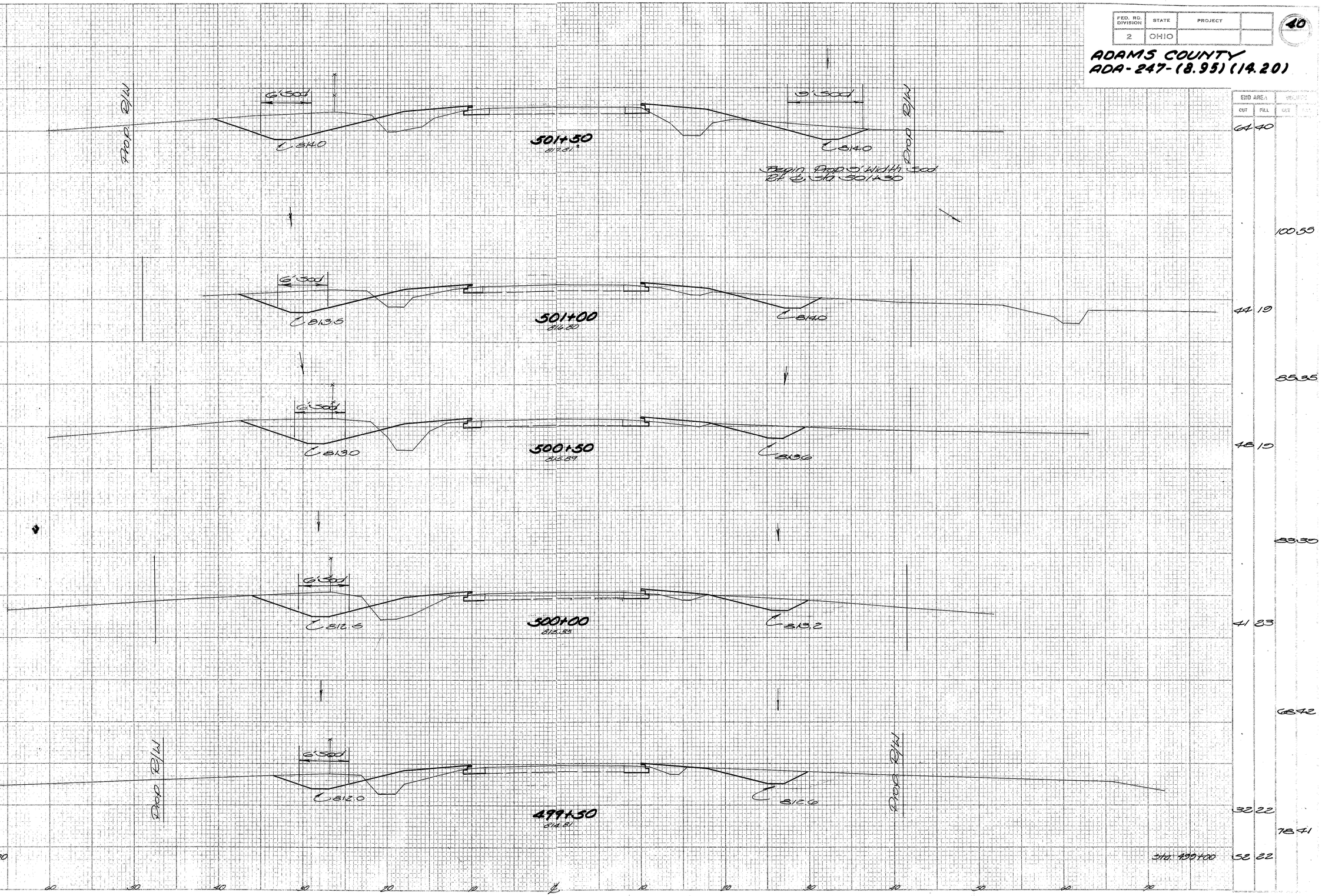
STA. 497+00 TO STA. 499+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

40

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
		64.40			
53					
	50			100.55	
44		44.10			
	60			85.35	
42		48.10			
	77			88.30	
41		41.83			
	60			68.42	
33		32.22			
	67			78.41	
30		52.22			

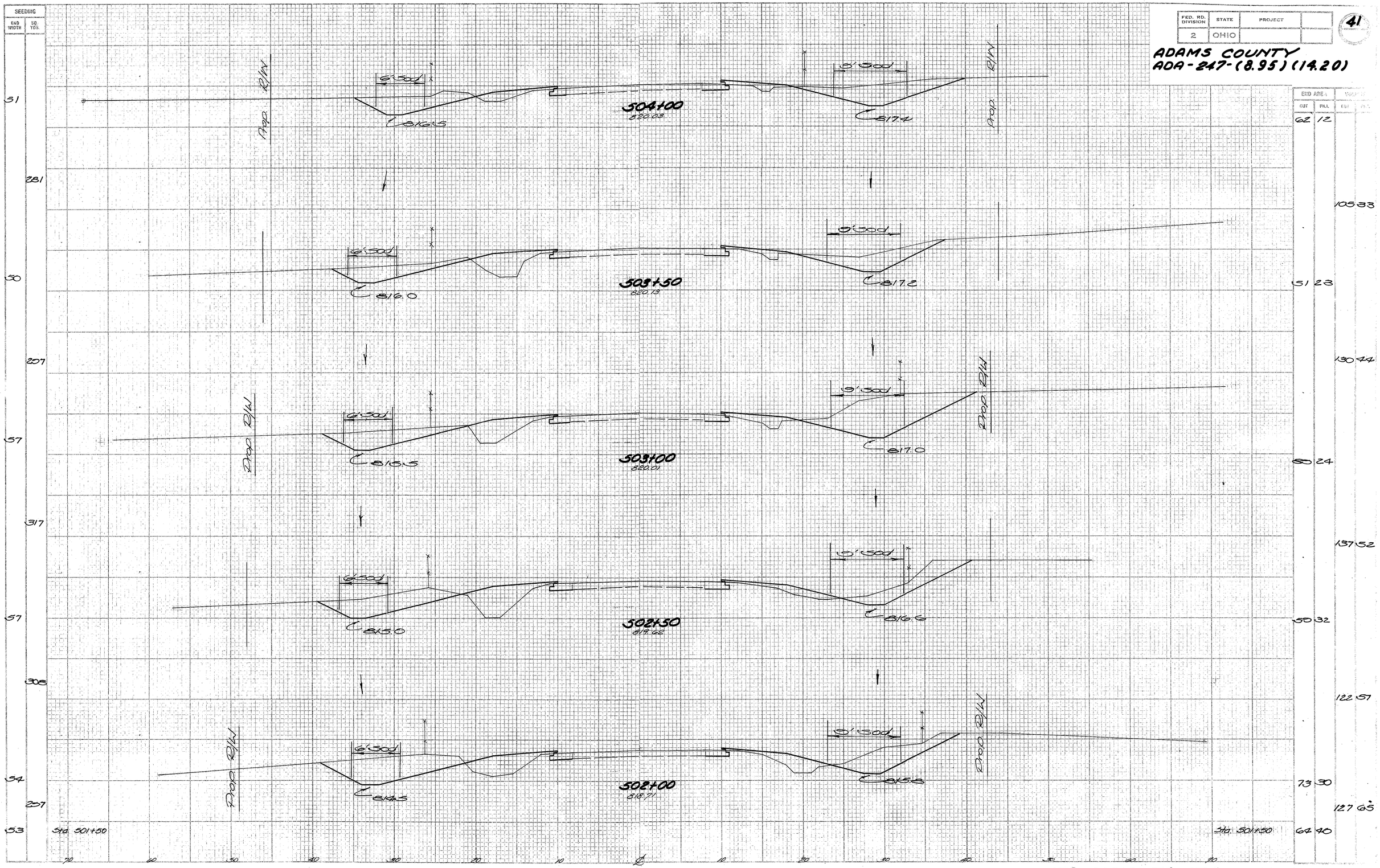


STA. 499+50 TO STA. 501+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

41

ADAMS COUNTY
ADA-247-(8.95)(14.20)

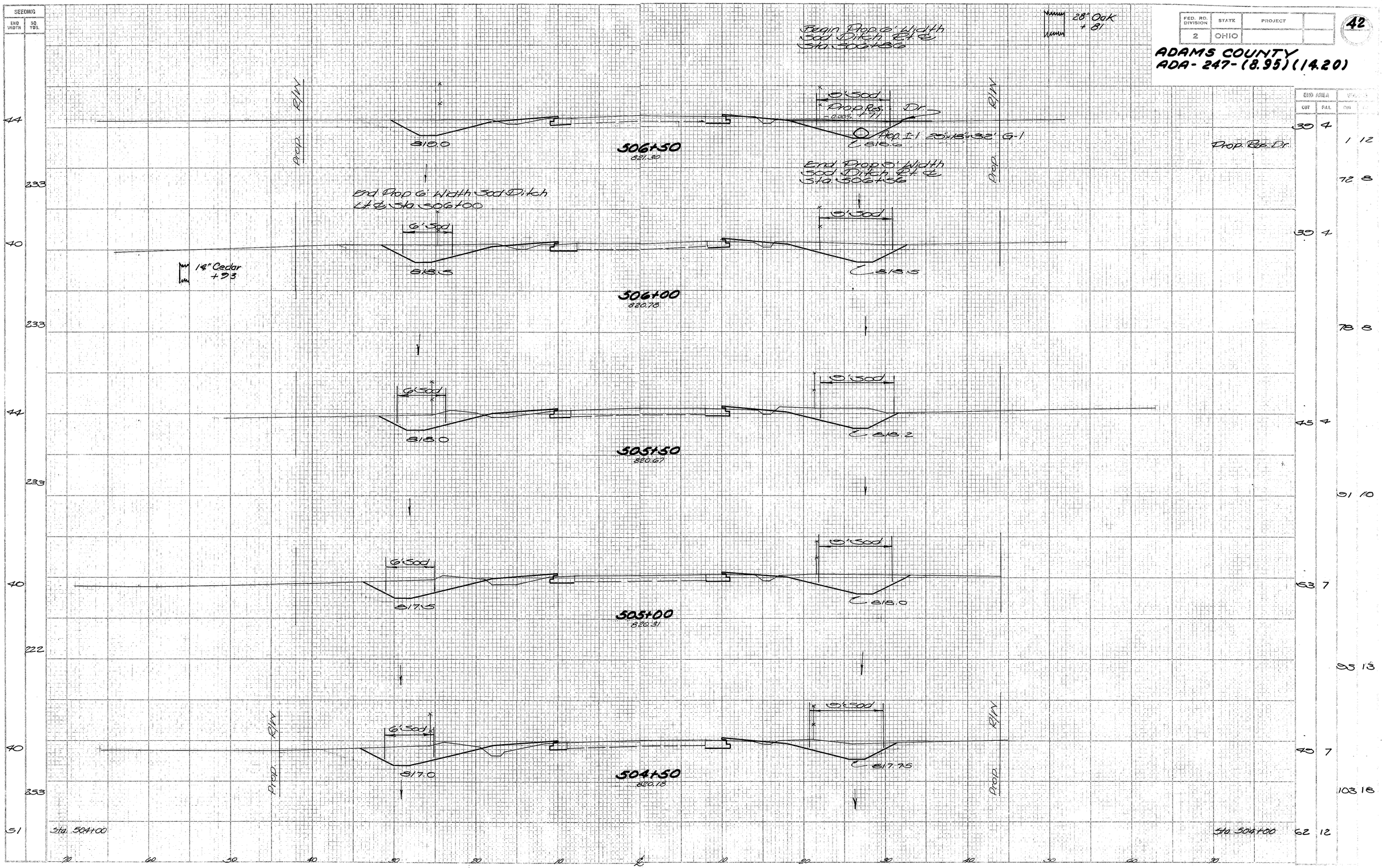


STA. 502+00 TO STA. 504+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

42

ADAMS COUNTY
ADA-247-(8.95)(14.20)

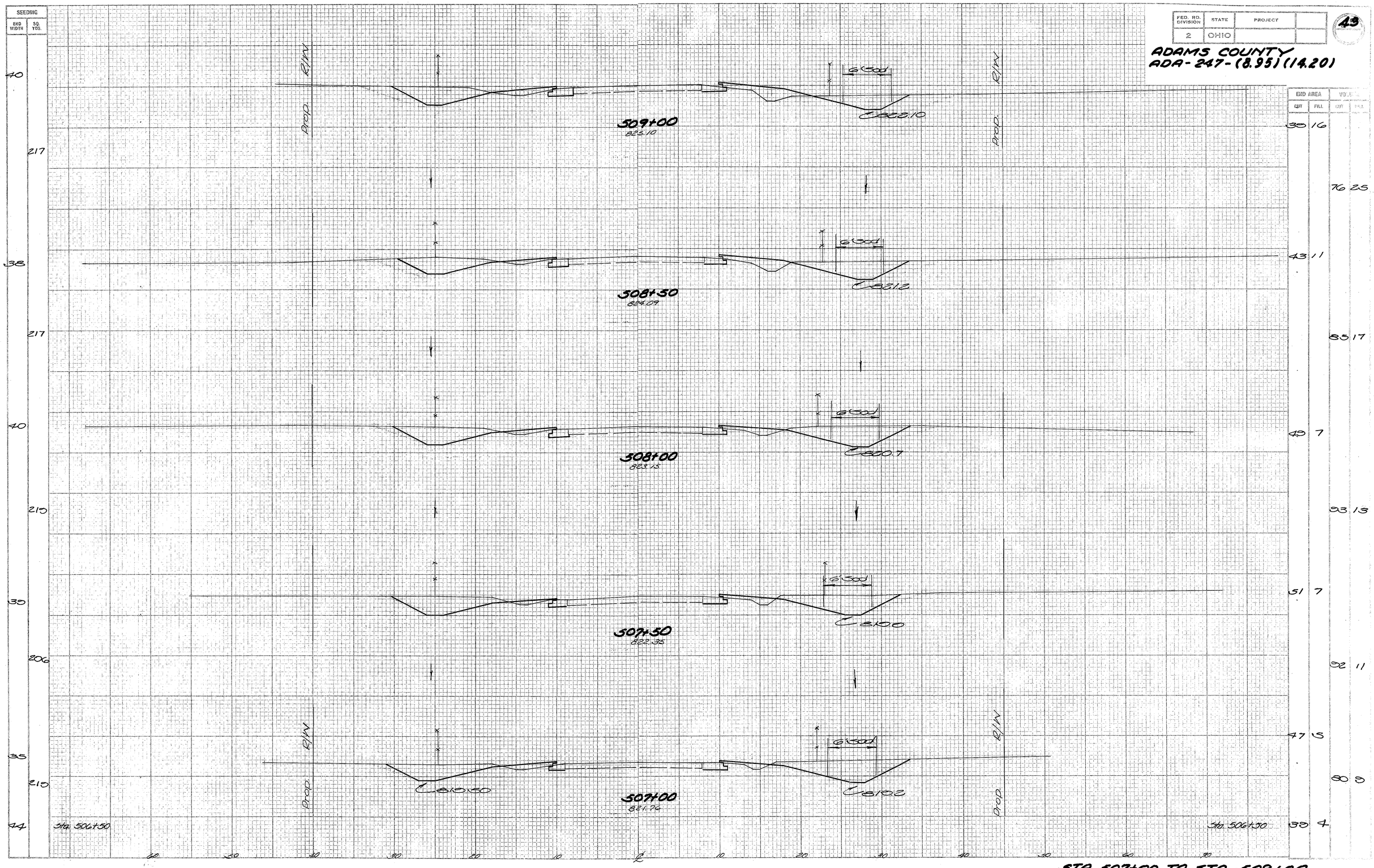


STA. 504+50 TO STA. 506+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

43

ADAMS COUNTY
ADA-247-(8.95)(14.20)

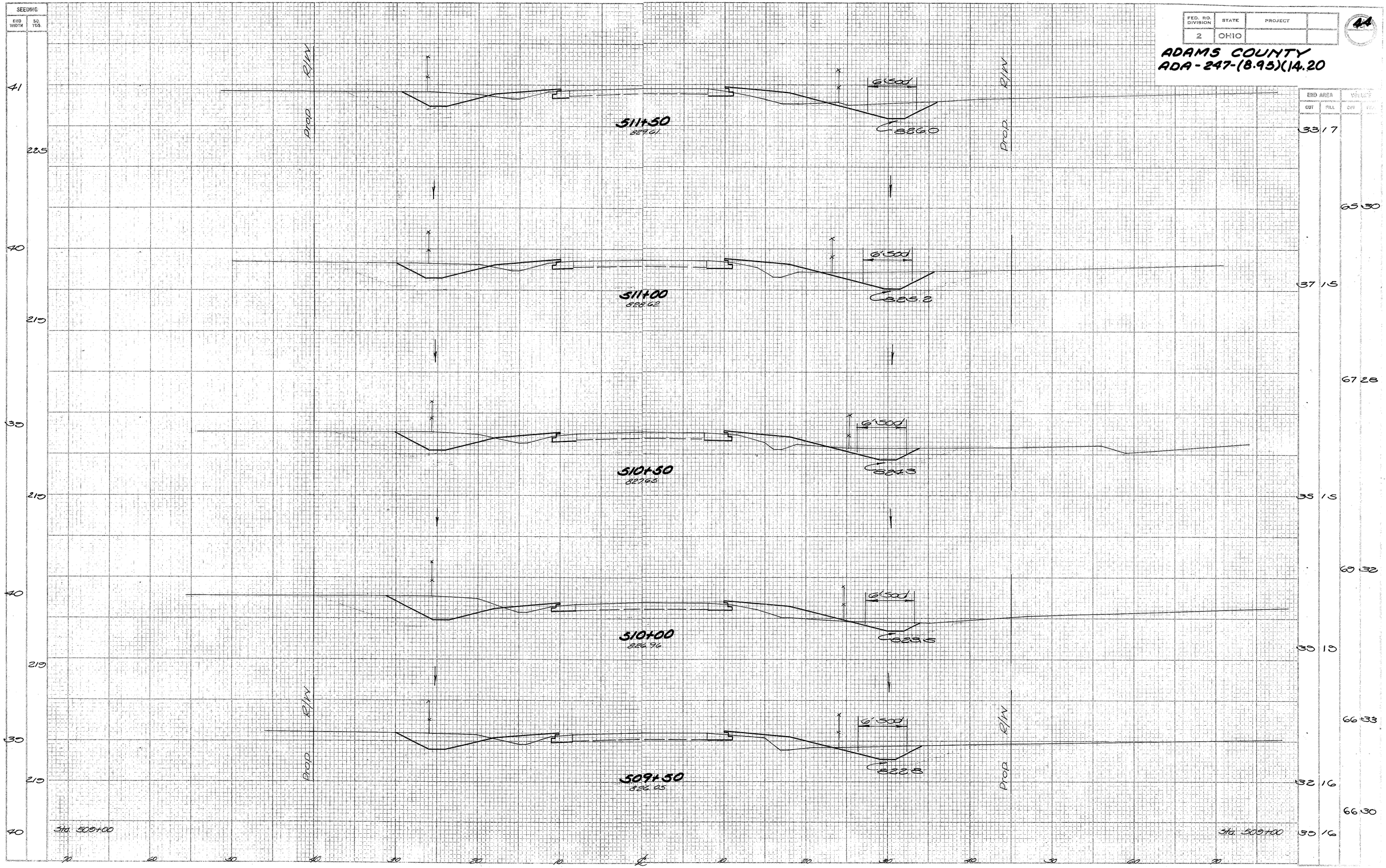


STA. 507+00 TO STA. 509+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

44

ADAMS COUNTY
ADA-247-(8.95)(14.20



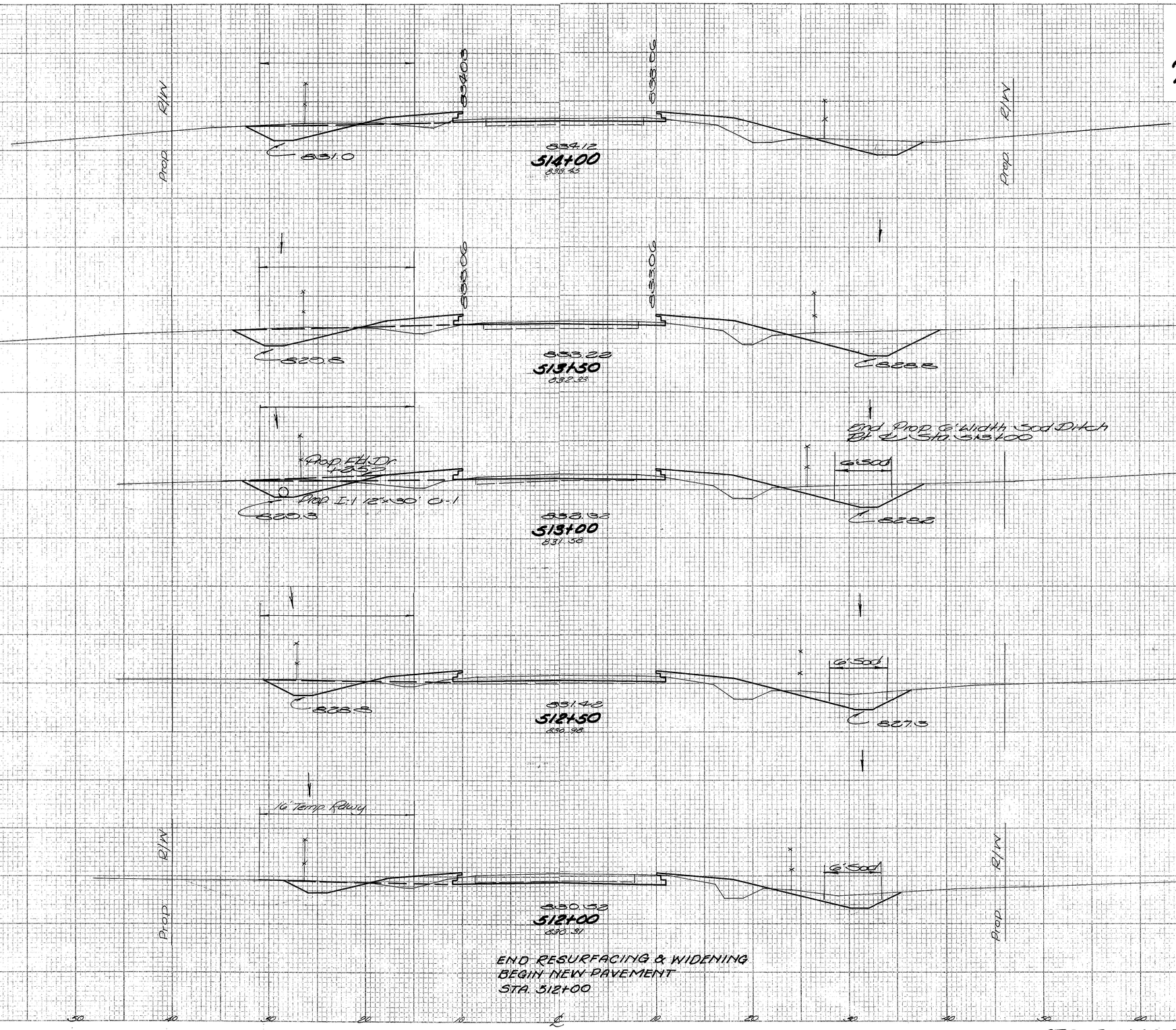
STA. 509+50 TO STA. 511+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

46

ADAMS COUNTY
ADA-247-(8.93)(14.20)

SEEDING		END AREA VOLUMES			
END WIDTH	SQ. YDS	CUT	FILL	CUT	FILL
52		34	32		
	257			76	56
55		48	28		
	283			82	55
46		40	31		
	344			74	48
42		40	21		
	222			77	56
38		43	18		
	215			71	33
41		33	17		



END RESURFACING & WIDENING
BEGIN NEW PAVEMENT
STA. 512+00

Sta. 511+50

Sta. 511+50

STA. 512+00 TO STA. 514+00

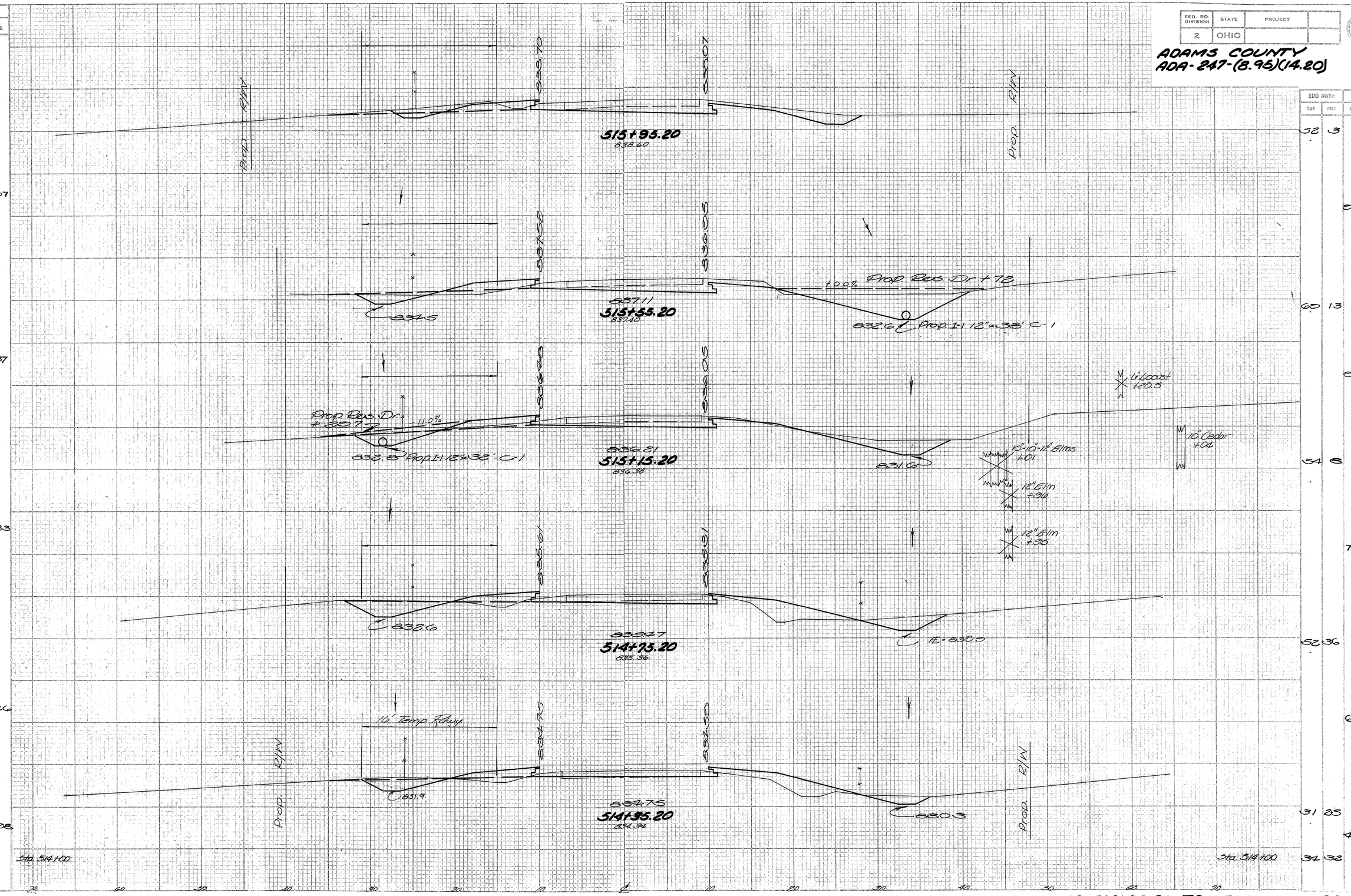
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

46

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING	
END WIDTH	SQ. YDS.
38	
	207
55	
	237
52	
	233
53	
	226
40	
	188
52	

END AREA		VOLUMES	
CUT	FILL	CUT	FILL
52	3		
		80	10
60	13		
		91	16
54	6		
		78	32
52	36		
		62	45
31	25		
		42	37
34	32		

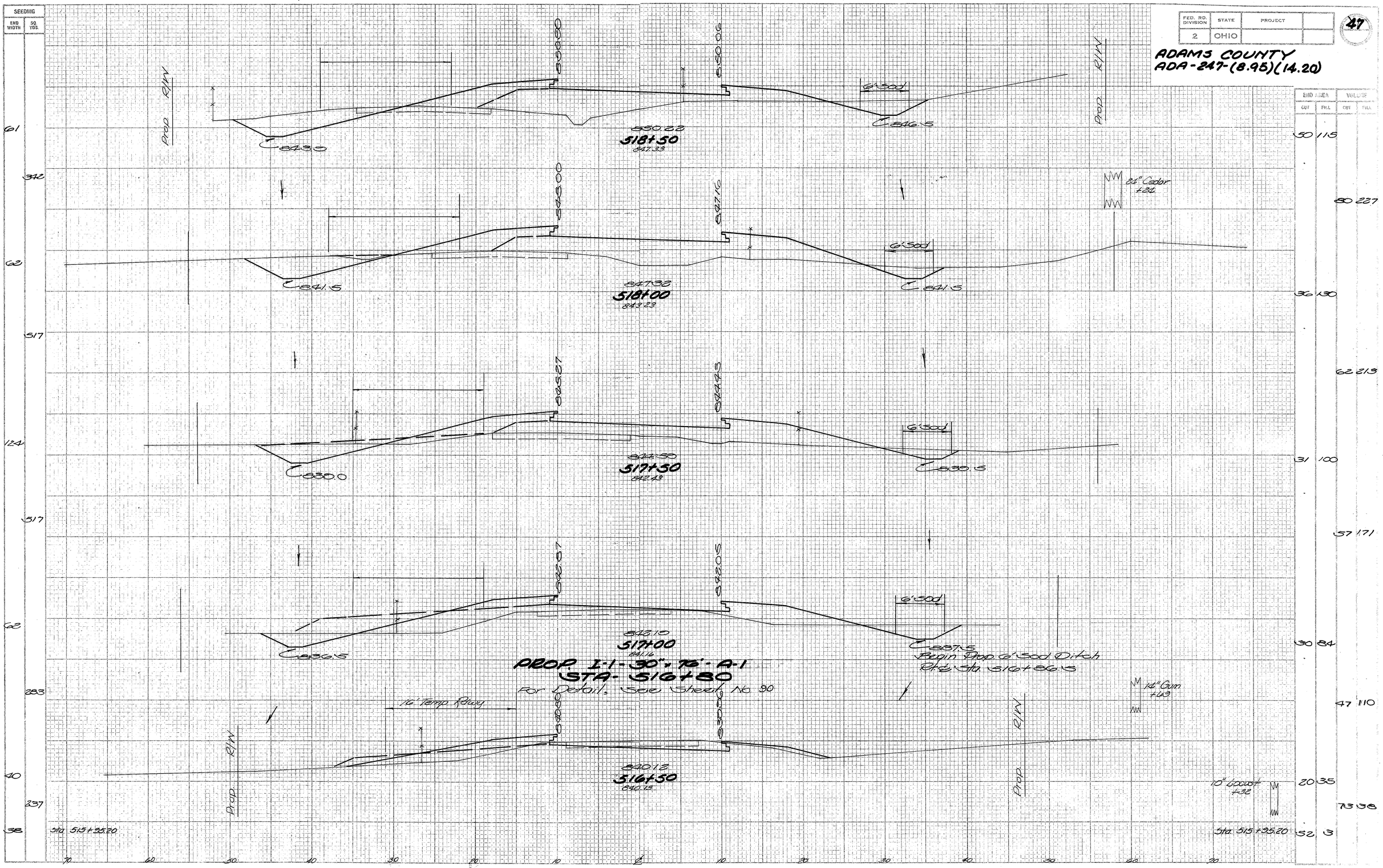


STA. 514+35.20 TO STA. 515+95.20

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

47

ADAMS COUNTY
ADA-247-(8.95)(14.20)



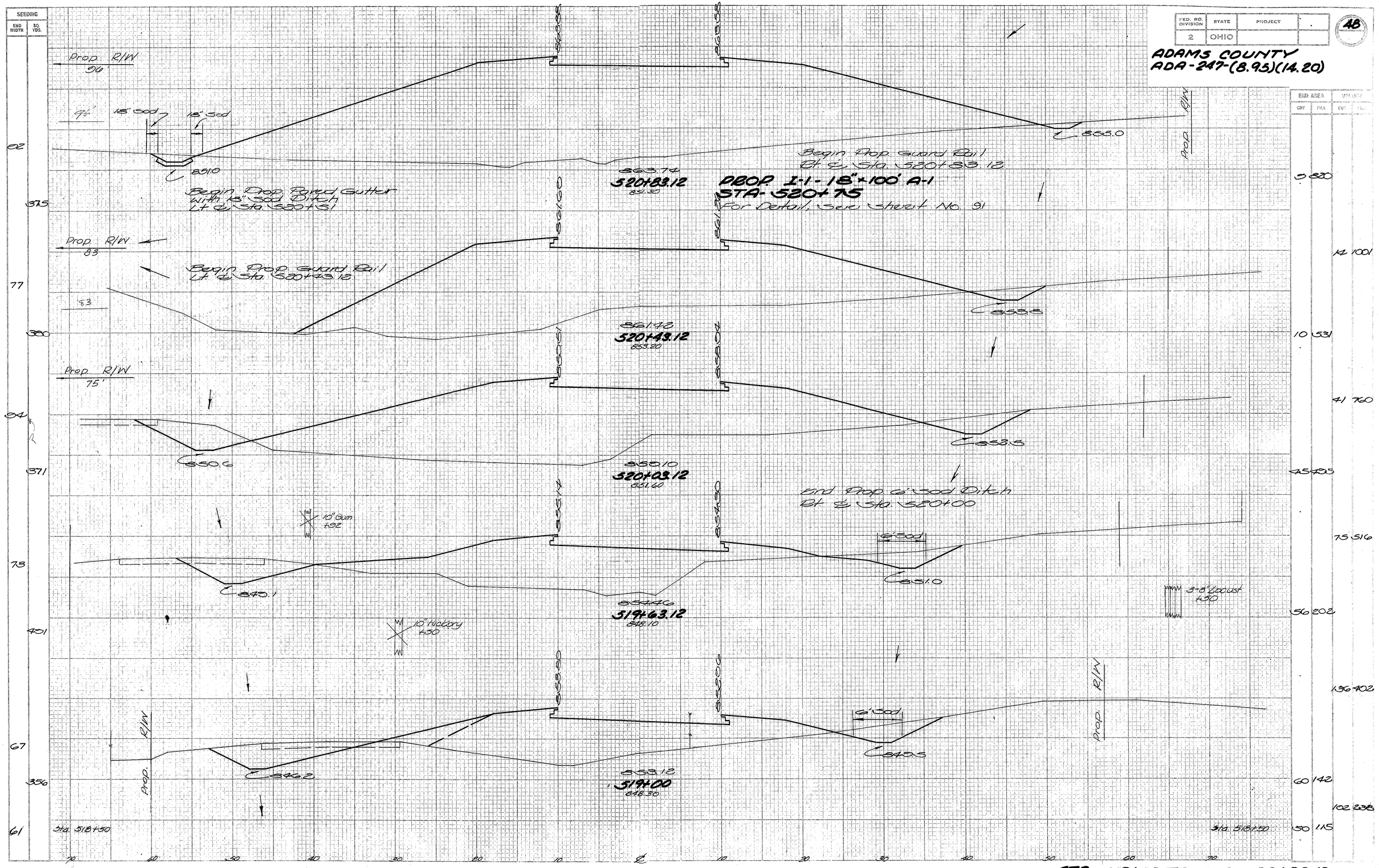
END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
50	115		
		80	227
36	130		
		62	213
31	100		
		57	171
30	84		
		47	110
20	35		
		73	38
52	3		

STA. 516+50 TO STA. 518+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

48

ADAMS COUNTY
ADA-247-(8.95)(14.20)



STA. 519+00 TO STA. 520+83.12

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

49

ADAMS COUNTY
ADA-247-(8.95)(14.20

SEEDING		END AREA		VOLUMES	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
70	967			2 801	
80	472			8 850	
81	768			12 760	
80	425			32 875	30 1350
82				5 820	

Prop. R/W 171'
18" Sod 18" Sod
8627.0
8" Oak ±87.0
870.32
523+00
866.10
12" Locust ±08
Prop. R/W
Prop. R/W 157'
18' 18'
8623.0
End Prop. Guard Rail Lt. & Sta. 522+55.63
873.42
522+50
862.70
Prop. R/W 140'
18' 18'
8500
870.56
522+00
859.00
8866.06
8865.80
Prop. R/W 110'
3:1
18" Sod 18" Sod
853.6
851.5
Prop. R/W
866.06
521+23.12
852.50
12" Locust ±13
10" Cedar ±08
Sta. 520+83.12
Sta. 520+83.12
10 10 20 30 40 50 60 70 80 90 00 10 20 30 40 50 60 70 80 90 00 10 20 30 40 50 60 70 80 90 00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

50

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
45			5		235
	200				
45			82		272
	252				
		120	132		
52					
	384			140	372
				20	240
80				15	635
	464			0	435
				5	522
77					
	433			5	560
70				7	1260
				2	501

Prop. R/W 155'
6' Sod
C 886.5
888.33
888.76
End Prop. Guard Rail Rt. ℄ Sta. 525+44.68
885.45
525+44.34
884.94
18" OaK +42
Prop. R/W
Prop. R/W 163'
6' Sod
C 885.0
887.43
887.78
887.64
525+04.34
886.72
Prop. R/W 175'
6' Sod
C 881.0
884.70
884.36
14" OaK +46
882.90
524+50
878.32
Begin Prop. 6' Sod Ditch Lt. ℄ Sta. 522+00
End Prop. Paved Gutter with 18" Sod Strips Lt. ℄ Sta. 522+00
Prop. R/W 179'
18" Sod 18" Sod
875.0
14" OaK +18
12" OaK +18
883.12
524+00
879.80
20" OaK +78.5
10" OaK +60
Prop. R/W 179'
18" Sod 18" Sod
871.0
870.82
523+50
870.10
Prop. R/W
Sta. 523+00
Sta. 523+00

STA. 523+50 TO STA. 525+44.34

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

51

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING	
END WIDTH	SQ. YDS.
62	220
40	180
30	187
48	200
45	

Prop. R/W 125'

Prop. R/W 134'

Prop. R/W 144'

Prop. R/W 148'

6'Sod

6'Sod

6'Sod

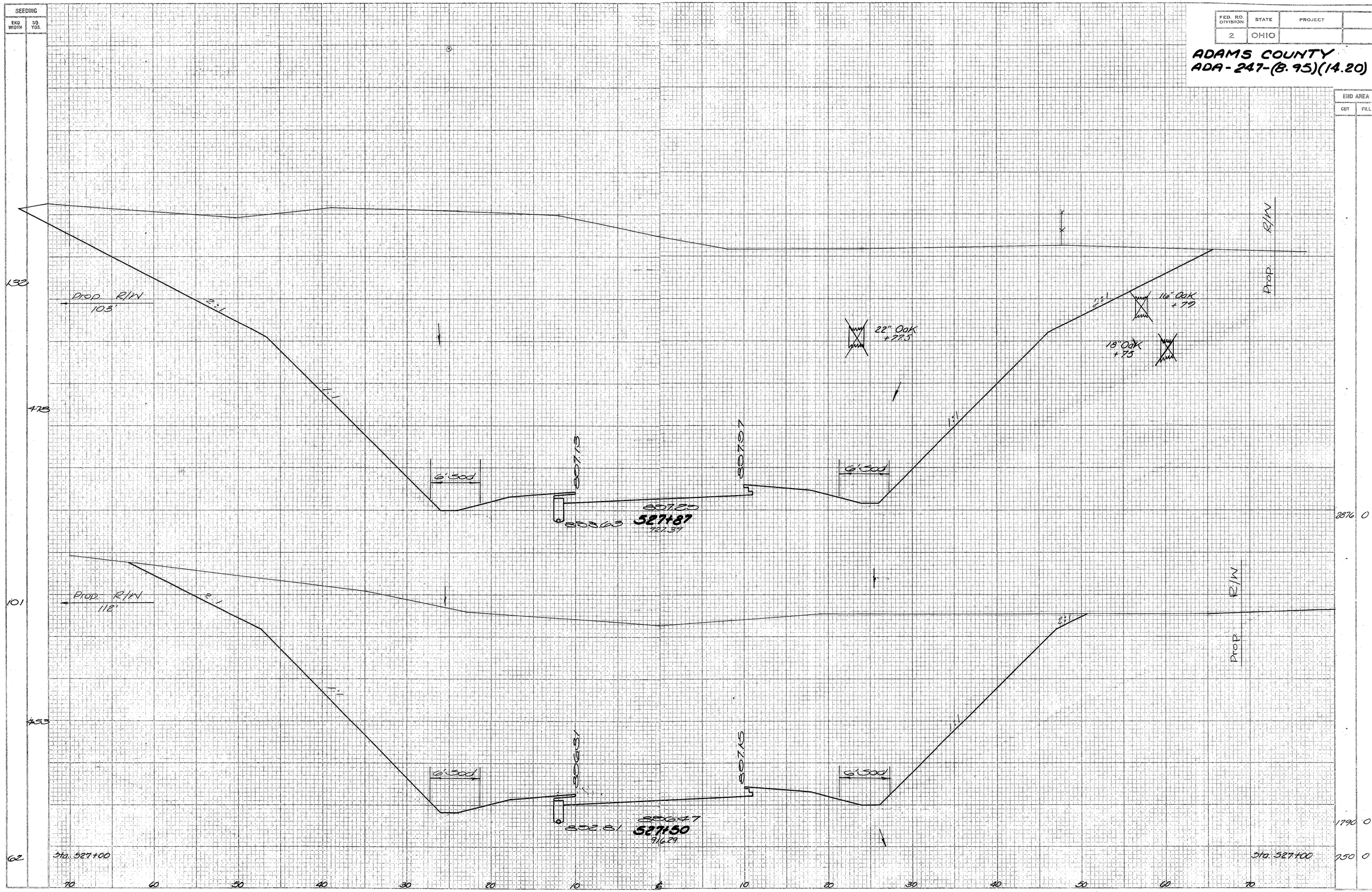
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

52

ADAMS COUNTY
ADA-247-(B.95)(14.20)

SEEDING	
EXD WIDTH	SQ. YDS.
132	
478	
101	
433	
62	

END AREA		VOLUME	
CUT	FILL	CUT	FILL

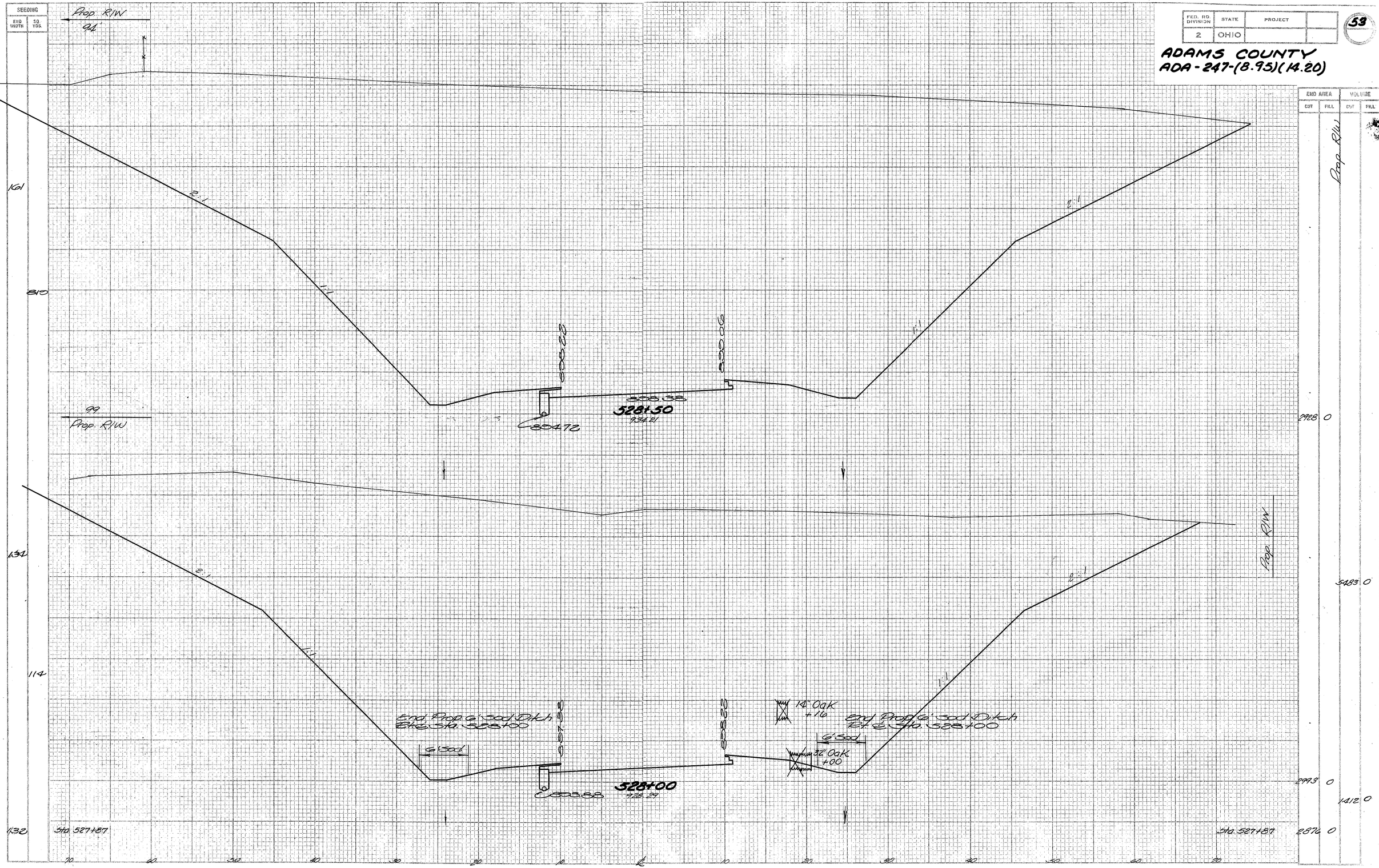


STA. 527+50 TO STA. 527+87

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

53

ADAMS COUNTY
ADA-247-(8.95)(14.20)



STA. 528+00 TO STA 528+50

SEEDING	
SHEET NUMBER	CO. NO'S

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

54

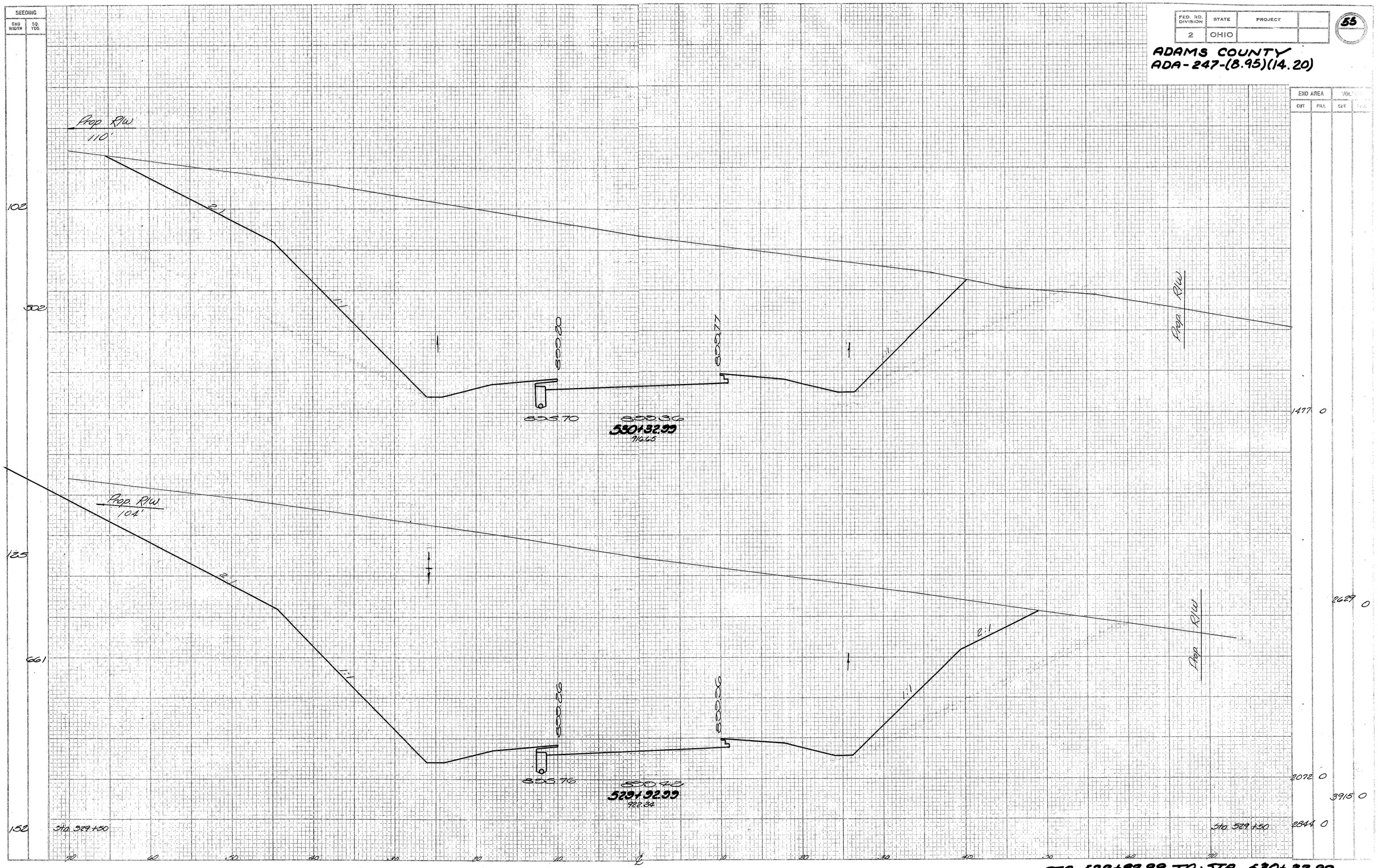
ADAMS COUNTY
ADA-247-(8.95)(14.20)

END AREA		VOLUME	
CUT	FILL	CUT	FILL

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

55

ADAMS COUNTY
ADA-247-(8.95)(14.20)

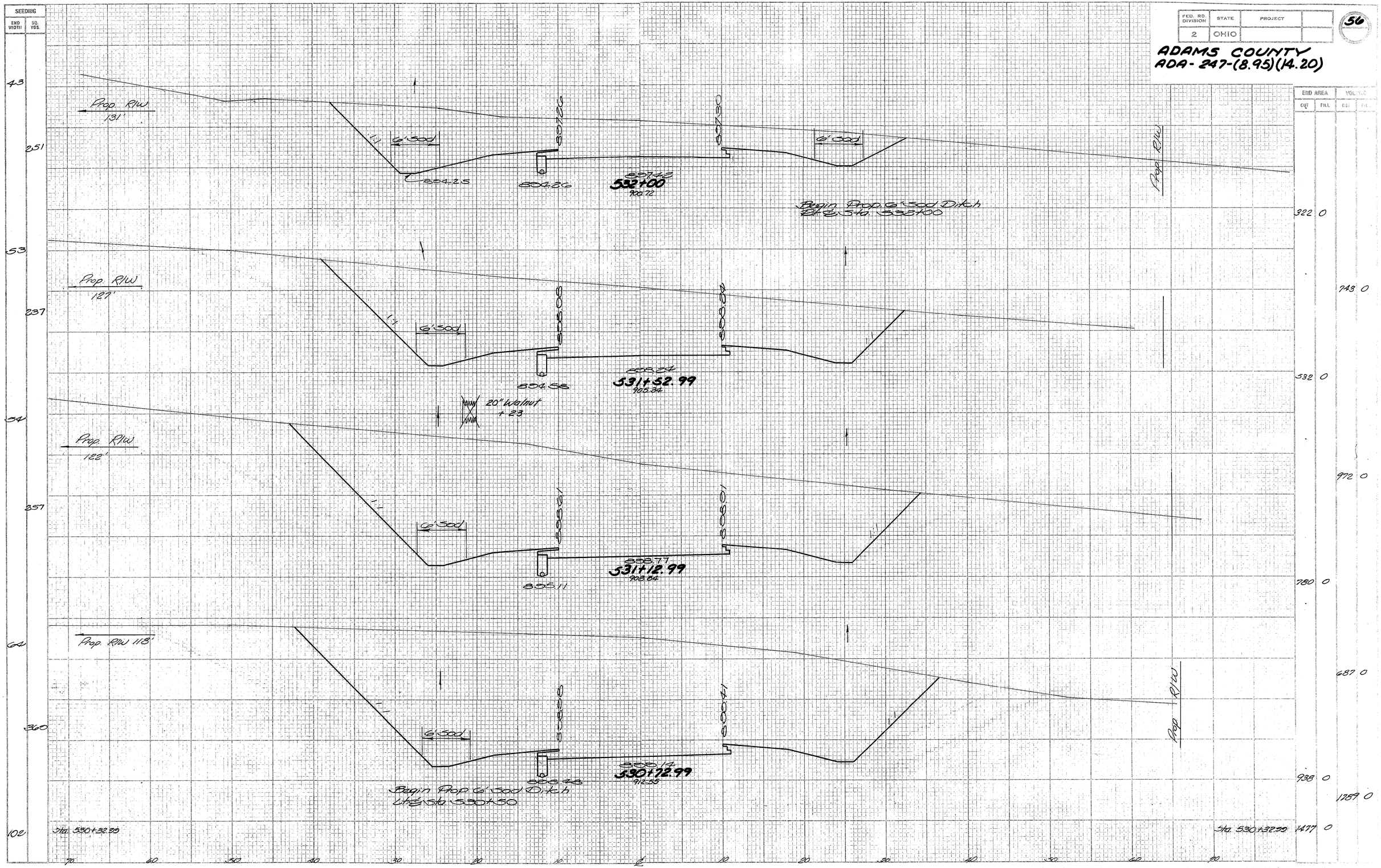


STA. 529+92.99 TO STA. 530+32.99

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

56

ADAMS COUNTY
ADA-247-(8.95)(14.20)

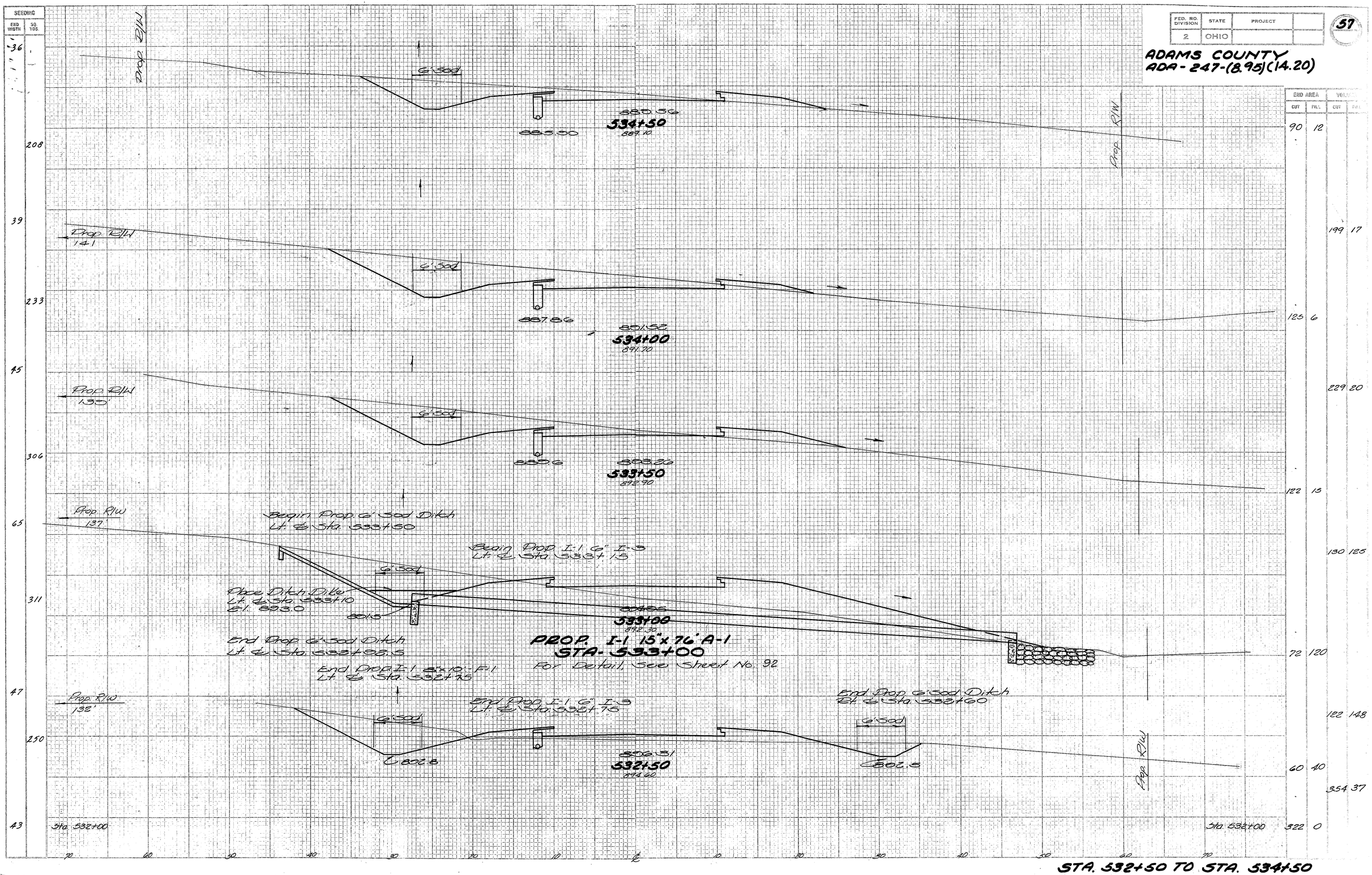


STA 530+72.99 TO STA 532+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

57

ADAMS COUNTY
ADA-247-(8.95)(14.20)

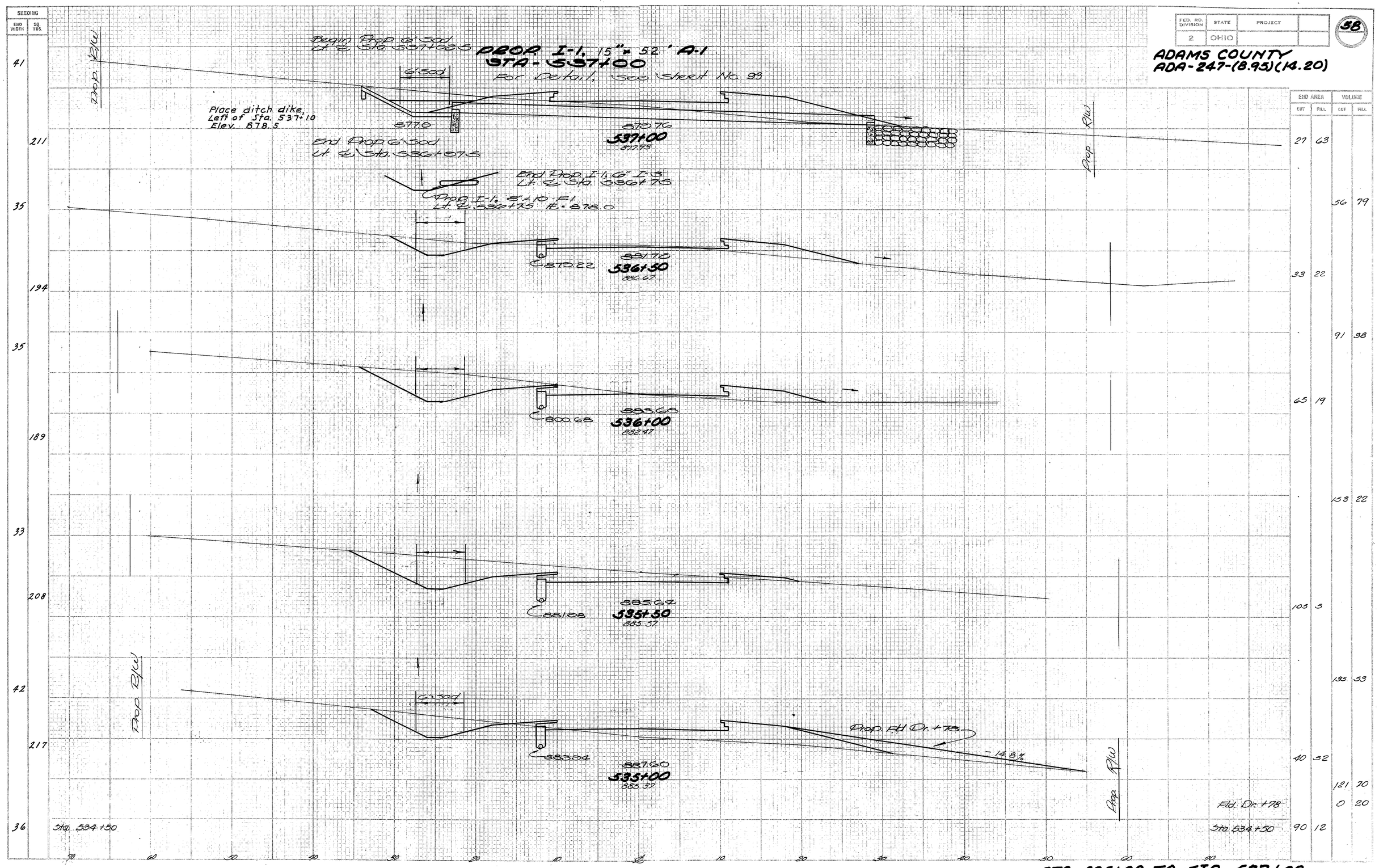


STA. 532+50 TO STA. 534+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

58

ADAMS COUNTY
ADA-247-(8.95)(14.20)



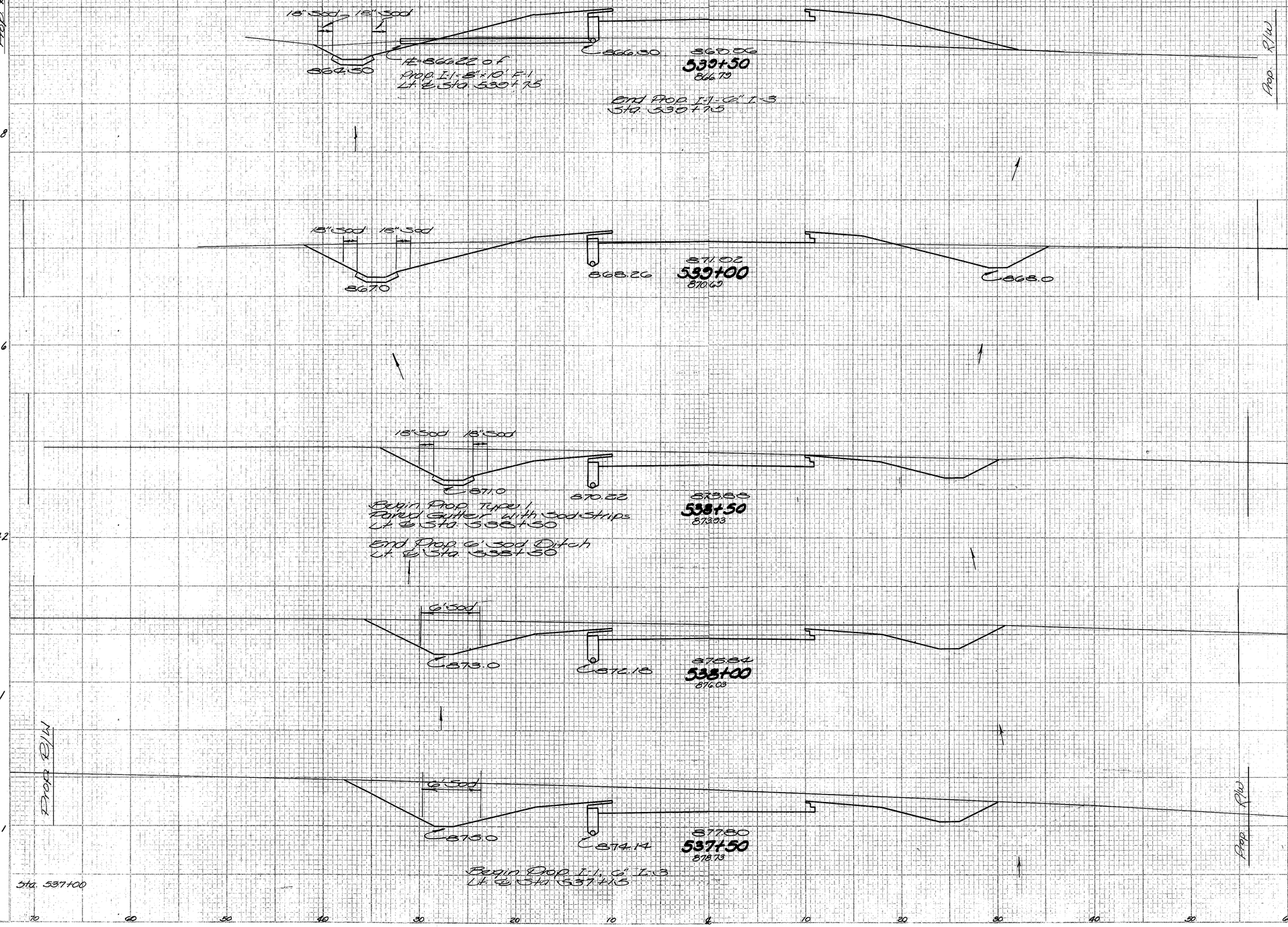
STA. 535+00 TO STA. 537+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

59

ADAMS COUNTY
ADA-247-(8.95X14.20)

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
47	278	15	125		
53	256	67	12	76	127
39	242			146	11
48	281	90	0	201	0
53	261	127	0	289	0
41		185	0	197	59
		27	63		

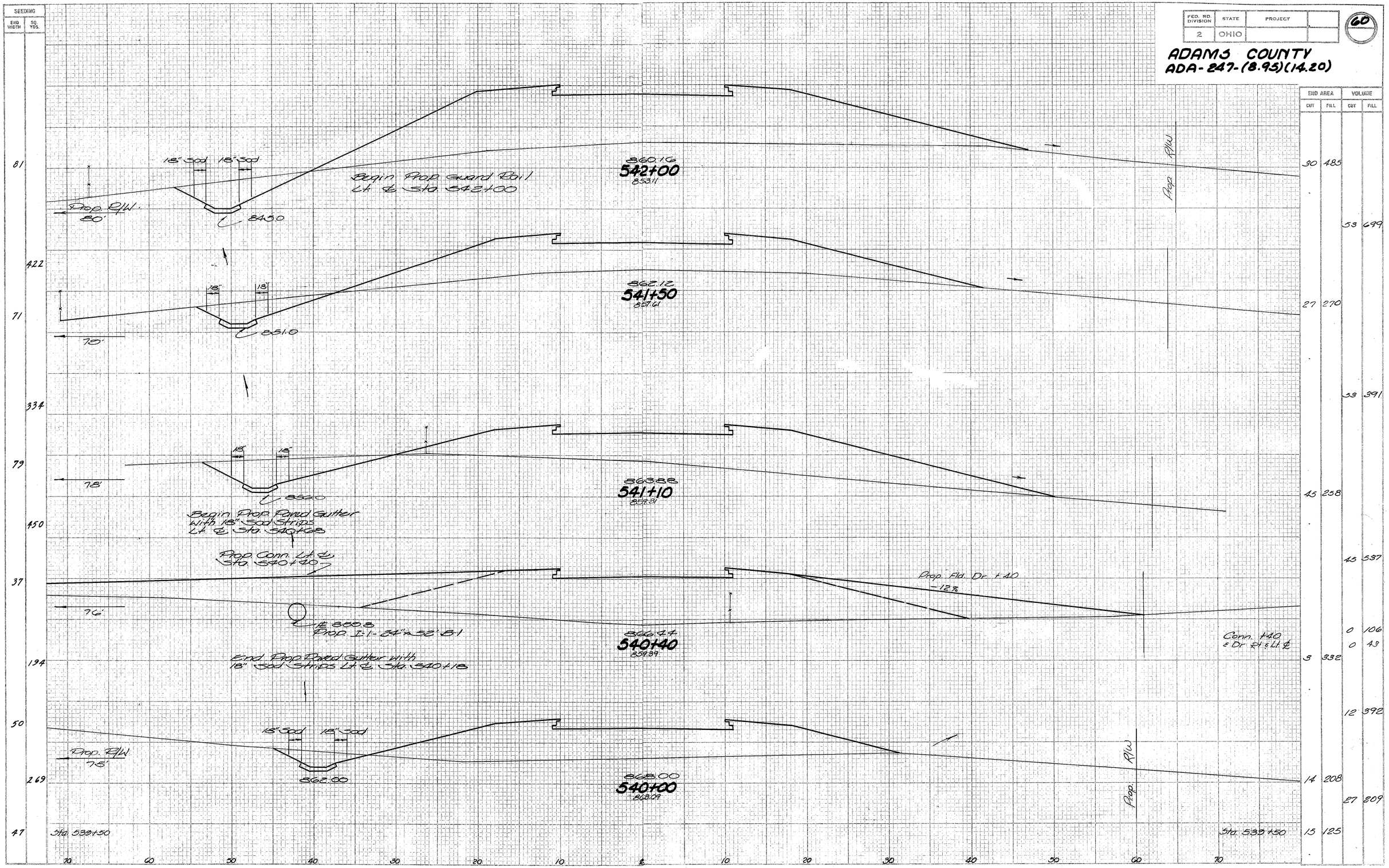


STA 537+50 TO STA 539+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

60

ADAMS COUNTY
ADA-247-(8.95)(14.20)



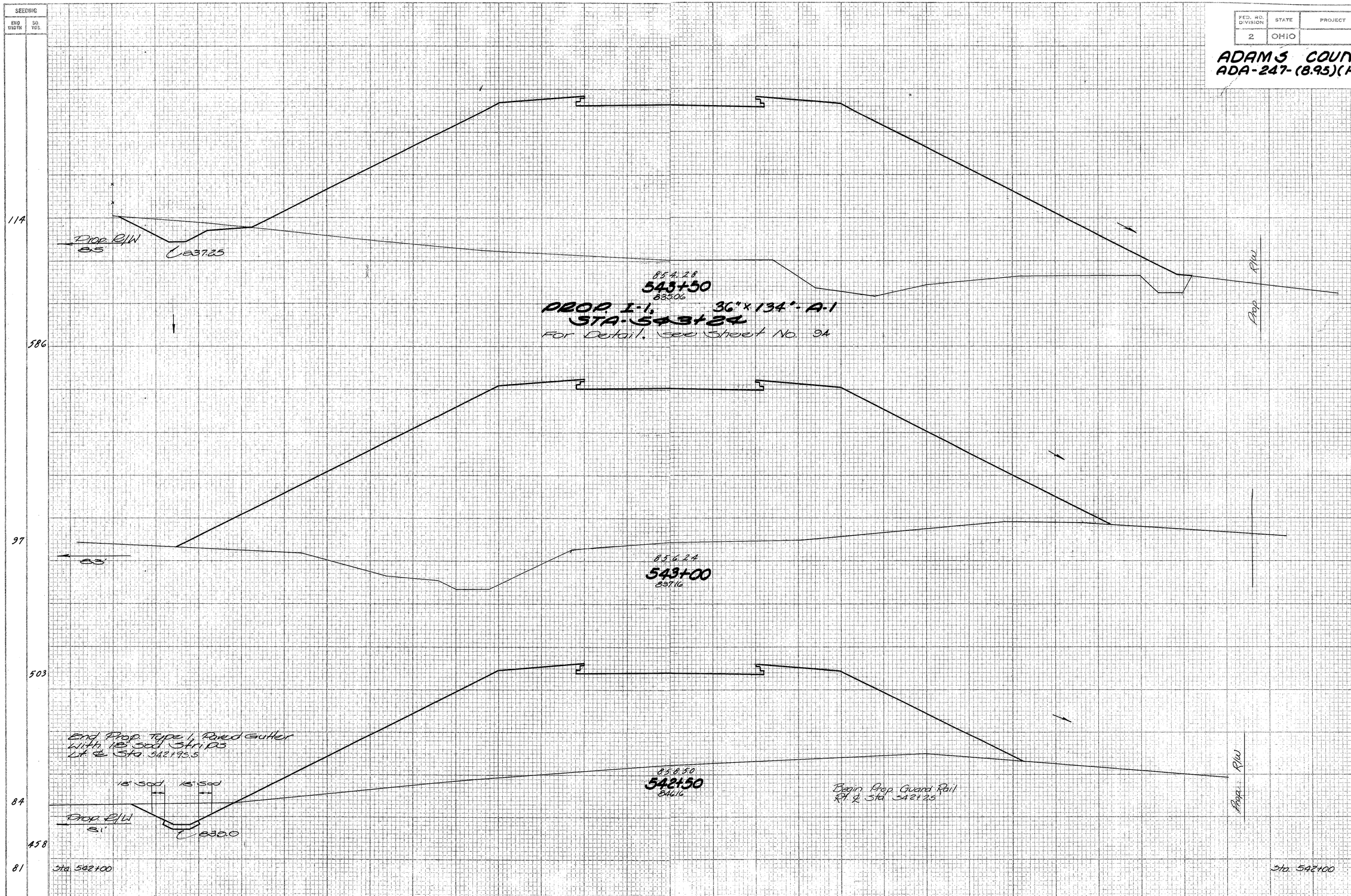
END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
30	485		
		53	699
27	270		
		53	391
45	258		
		45	537
		0	106
		0	43
3	332		
		12	392
14	208		
		27	209
15	125		

STA. 540+0 TO STA 542+0

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

61

ADAMS COUNTY
ADA-247-(8.95)(14.20)



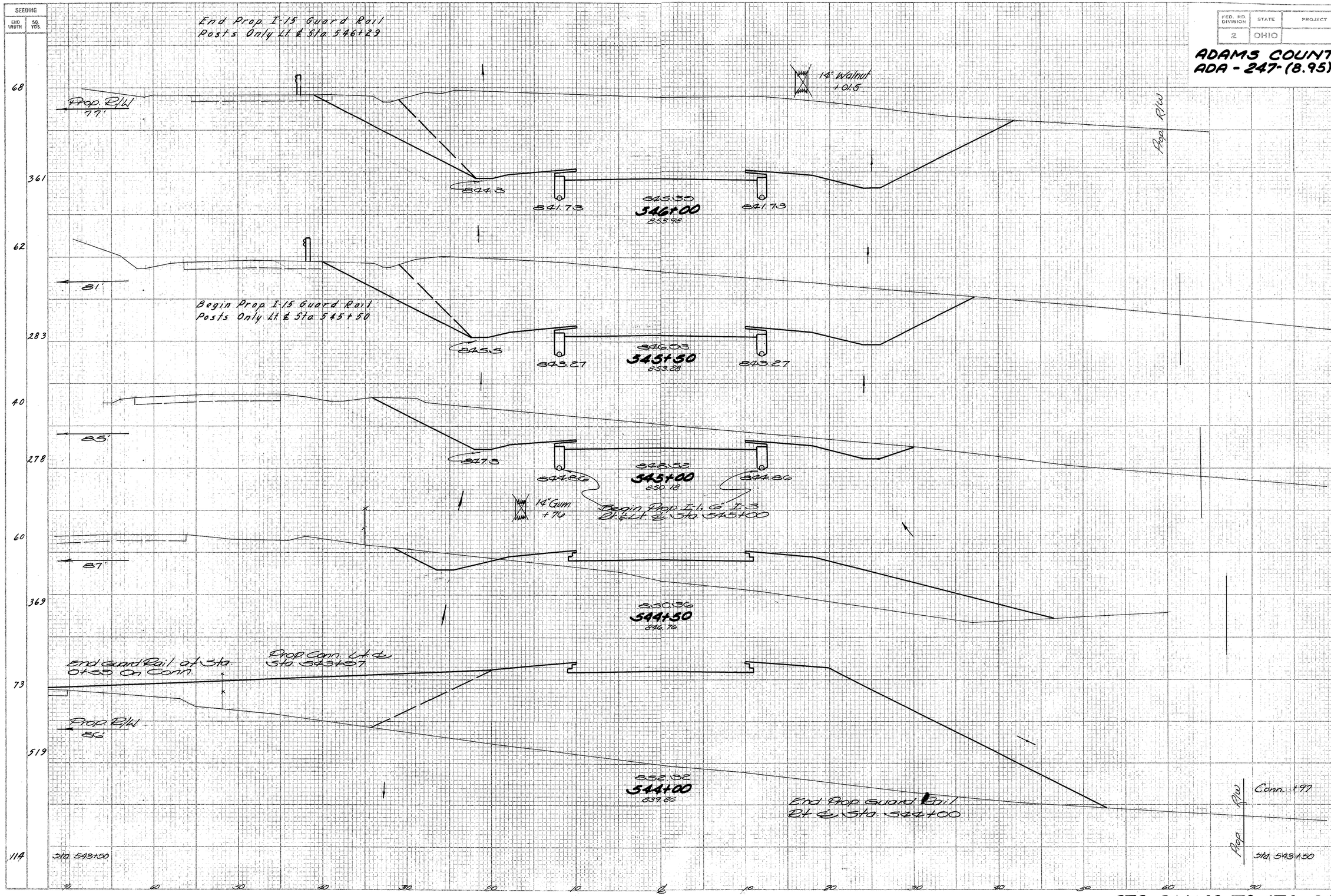
END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
18	1429		
		17	2673
0	1457		
		17	2049
18	756		
		45	1149
30	485		

STA 542+50 TO STA 543+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

62

ADAMS COUNTY
ADA - 247-(8.95)(14.20)



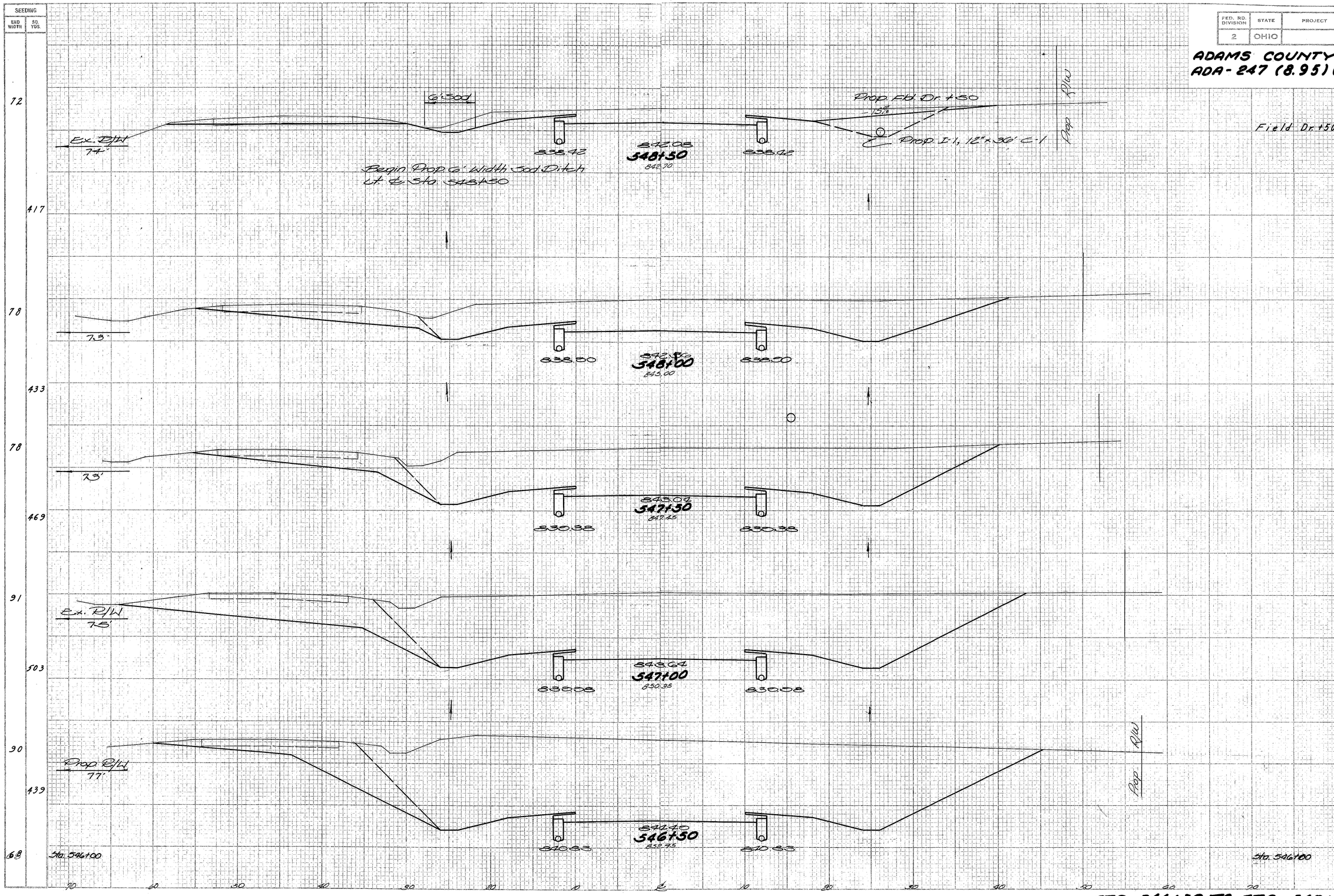
END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
817	0		
		1444	0
742	0		
		849	0
175	0		
		173	168
12	181		
		11	883
		0	223
0	772		
		17	2038
18	1429		

STA. 544+00 TO STA. 546+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

63

ADAMS COUNTY
ADA-247 (8.95)(14.20)



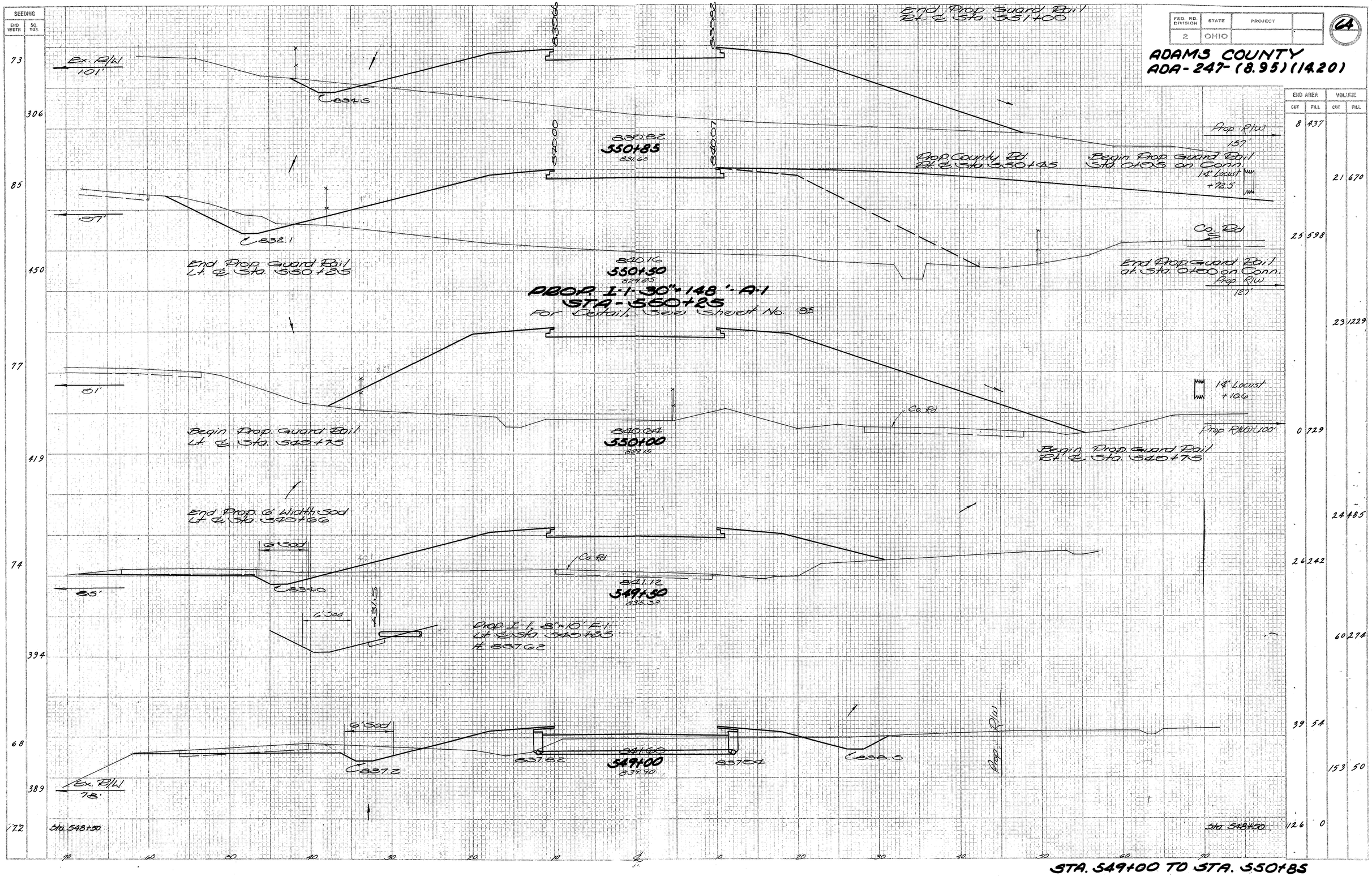
	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
Field Dr. +50			14	11
	126	0		
			372	0
	275	0		
			621	0
	395	0		
			928	0
	607	0		
			1241	0
	733	0		
			1435	0
	817	0		

STA. 546+50 TO STA. 548+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

64

ADAMS COUNTY
ADA-247-(8.95)(14.20)



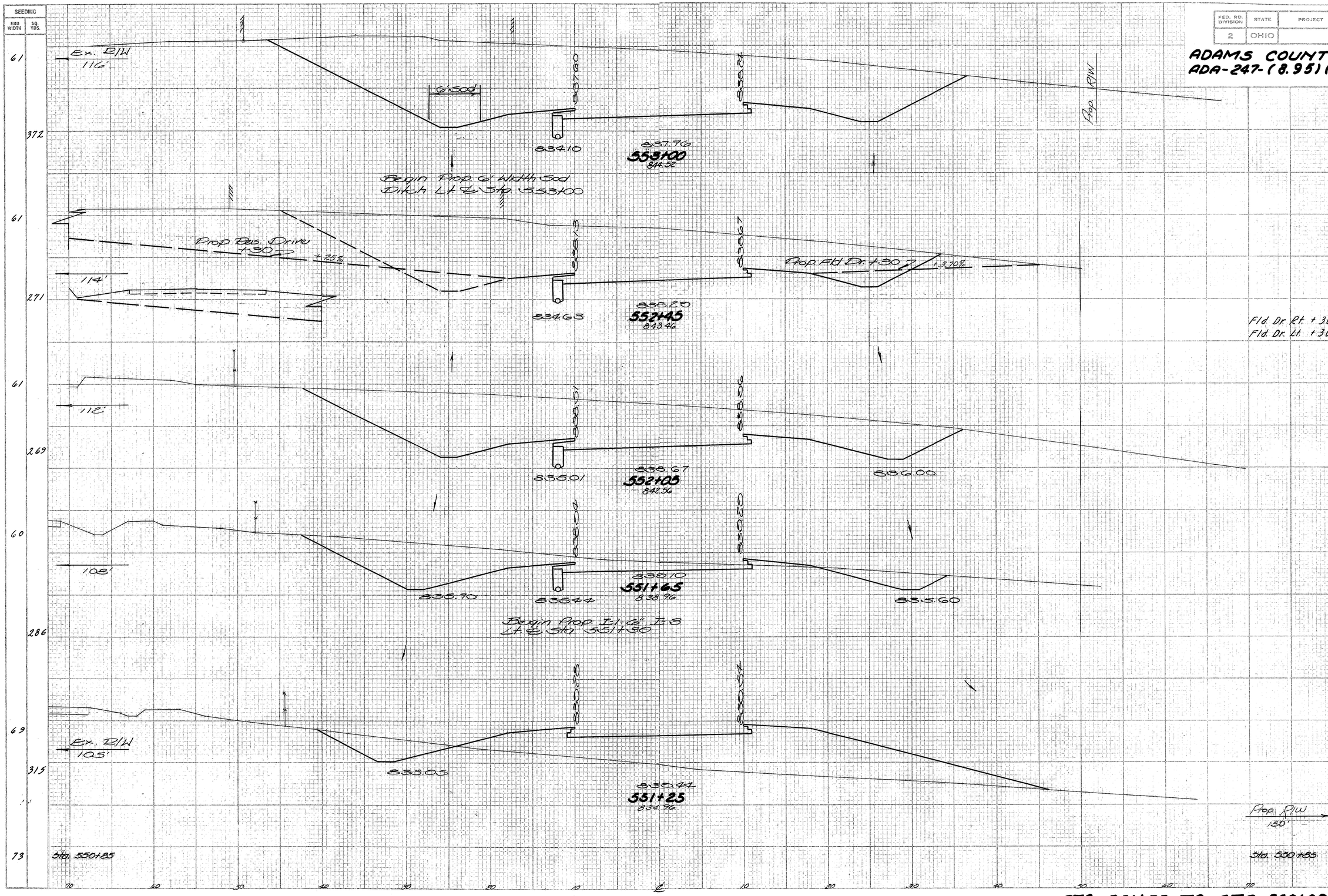
END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
8	437		
		21	670
25	598		
		23	1229
0	729		
		24	485
26	242		
		60	274
39	54		
		153	50
126	0		

STA. 549+00 TO STA. 550+85

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

65

ADAMS COUNTY
ADA-247-(8.95)(14.20)



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	550	0		
			986	0
	418	0		
Fld. Dr. Rt. +30			16	12
Fld. Dr. Lt. +30			100	14
			572	0
	355	0		
			281	88
	24	118		
			38	251
	27	221		
			26	488
	8	437		

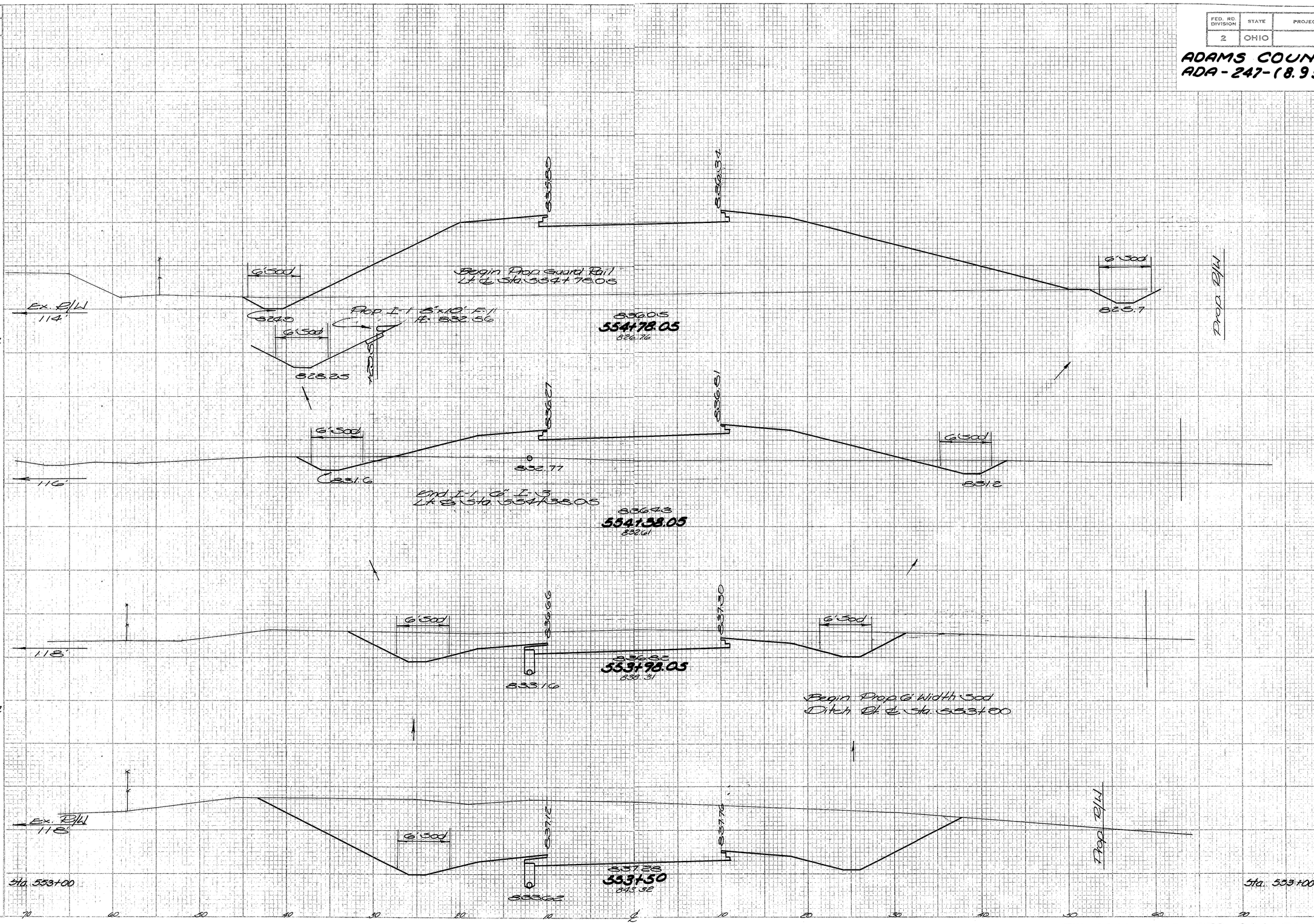
STA. 551+25 TO STA 553+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

66

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING		END AREA		VOLUME	
END WIDTH	SQ YDS	CUT	FILL	CUT	FILL
76					
282				13 575	
51					25 534
187				21 146	
33					118 108
242				138 0	
58					544 0
331				474 0	
61					948 0
				550 0	

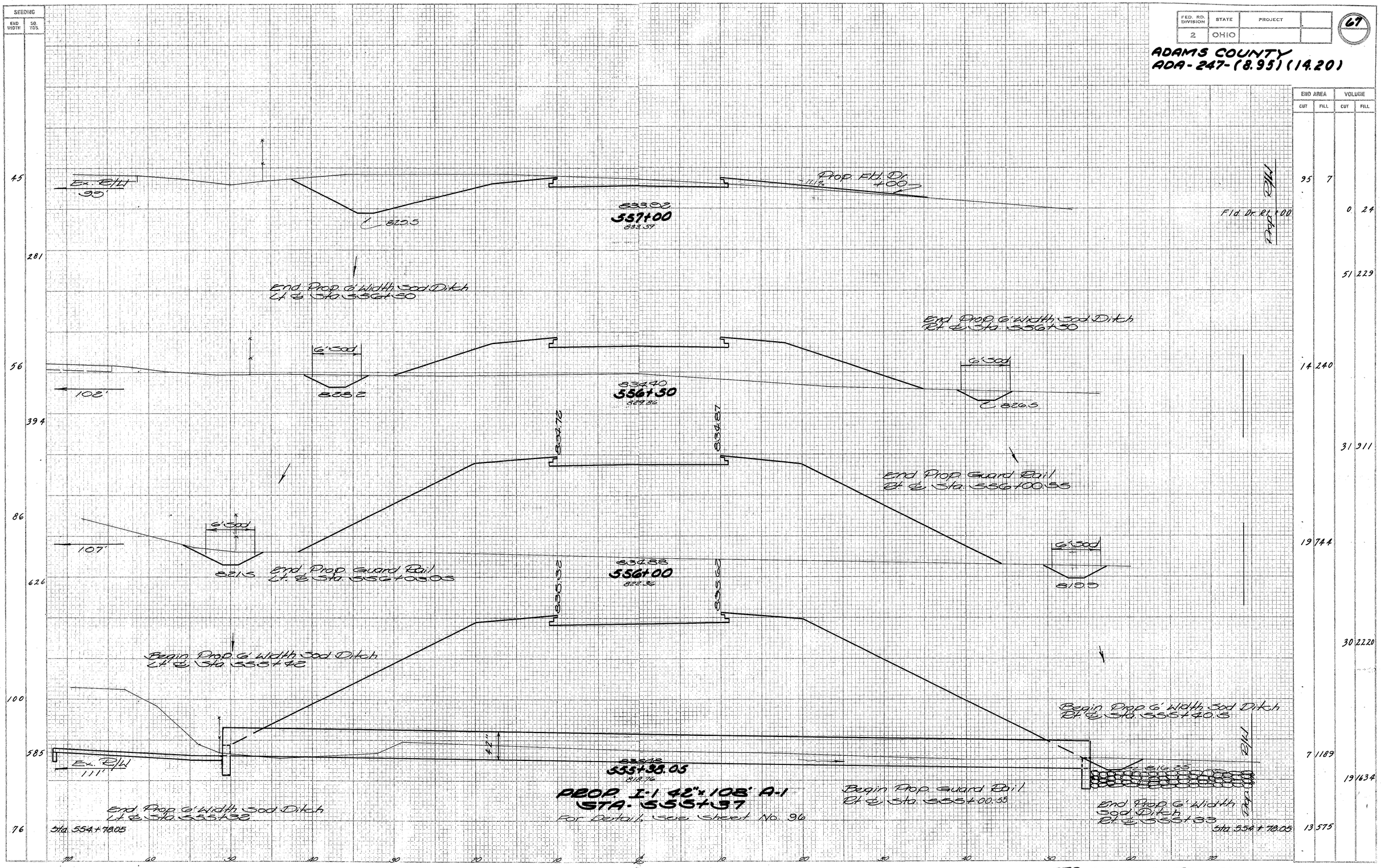


STA. 553+30 TO STA. 554+78.05

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

67

ADAMS COUNTY
ADA-247-(8.95)(14.20)



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
95	7		
		0	24
		51	229
14	240		
		31	911
19	744		
		30	2220
7	1189		
		19	1634
13	575		

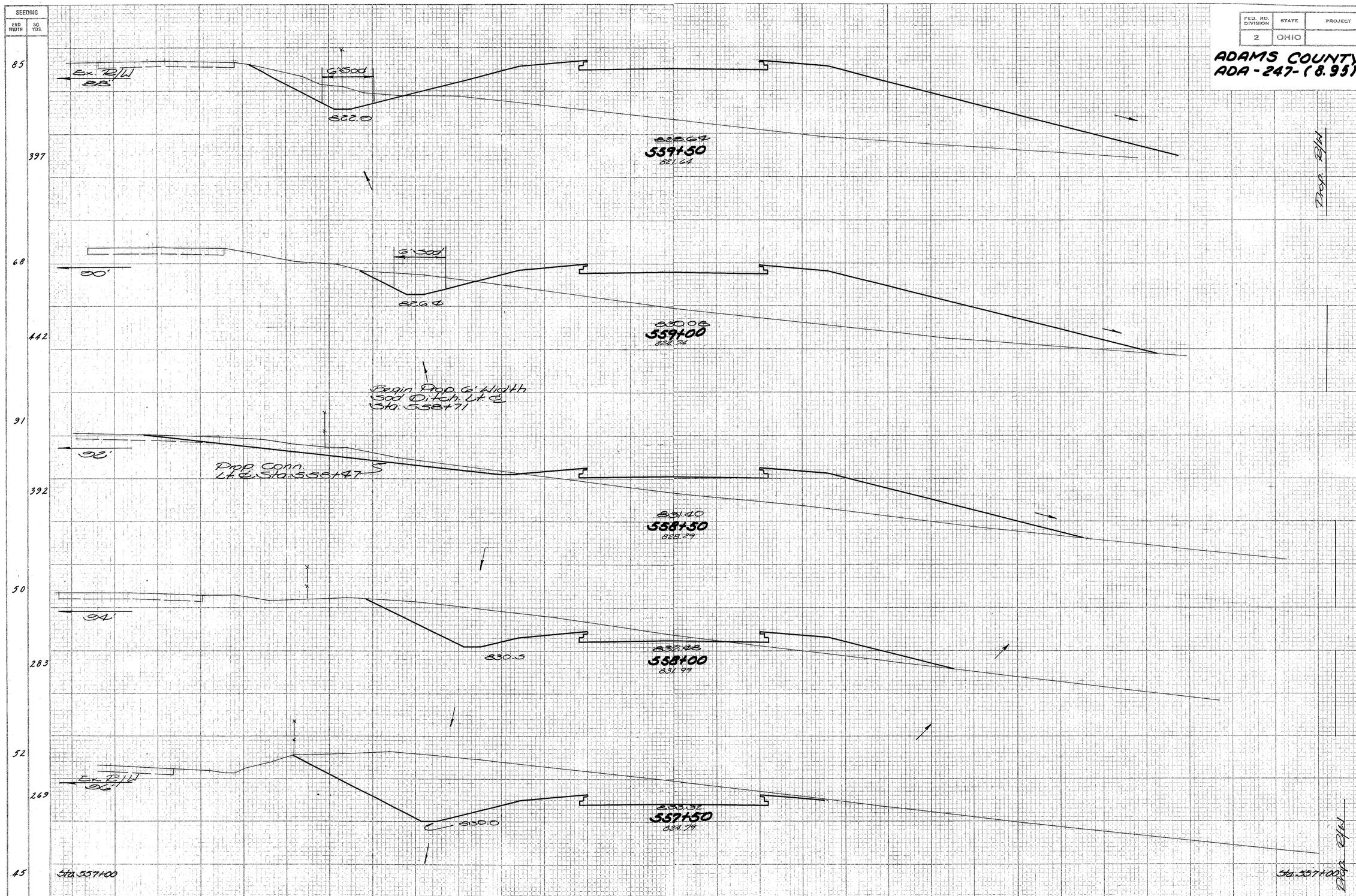
Fld. Dr. Rt. +00

STA. 555+38.05 TO STA. 557+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

68

ADAMS COUNTY
ADA-247-(8.95)(14.20)



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
25	440		
		42	681
20	295		
		47	408
30	145		
		111	162
92	30		
		294	28
225	0		
		297	7
95	7		

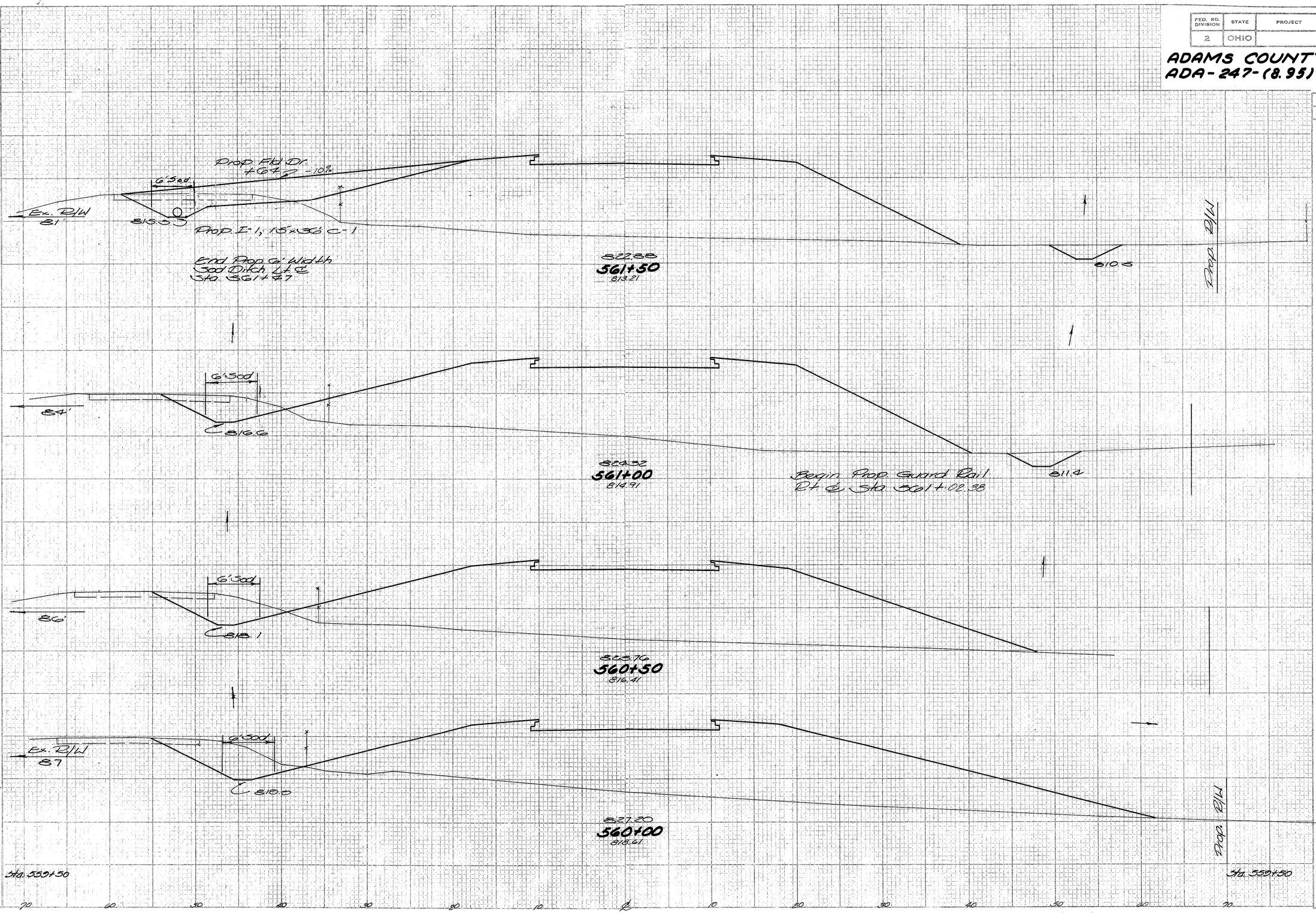
STA. 557+50 TO STA 559+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

68-A

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING		EMB AREA		VOLUME	
EMB WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
95					
	503			36518	
86					71976
461				40536	
80					74989
483				40532	
94					84998
497				50546	
85					70 1006
				25440	



STA. 560+00 TO STA 561+50

FED. RD. DIVISION	STATE	PROJECT		69
2	OHIO			

ADAMS COUNTY
ADA-247-(8.06)(14.20)

SEEDING			END AREA		VOLUME	
END WIDTH	SQ. YDS.		CUT	FILL	CUT	FILL
66	372	Item 659 Seeding & Mulching 11.25 Lb. Mix. Section 33.15 To 560 SQ. YDS.	58	152		
					33324	
68	403		17	158		
					32457	
77	370		17	285		
					25684	
56	105		10	443		
					6278	
56	81		10	443		
					4180	
41	81		27	502		
					56007	
460	35		27	502		
			30	518		

Excavation 12,631 C.Y.
Embankment 2,740 C.Y.

Ex. R/W

Prop. R/W

6'Sod

B10.01
564+00
BKS. 32

C8.14.4

6'Sod

B10.63
563+50
B14.80

C8.13.6

6'Sod

B10.07
563+00
B13.37

C8.12.6

End Prop. Guard Rail
Lt. & Sta. 562+70.62

End Prop. Guard Rail
Rt. & Sta. 562+77.38

6'Sod

B9.63
562+50
B14.49

C8.12.5

7.5'
562+33.15

562+02.35

BRIDGE LIMITS STA. 562+33.15

BRIDGE LIMITS STA. 562+02.35

Begin Prop. 6' Width Sod Ditch
End Prop. 6' Width Dumped Rock
Channel Protection Rt. & Sta
562+15

Begin Prop. 6' Width Dumped
Rock Channel Protection Rt. &
Sta. 562+05

562+33.15

562+02.35

End Prop 6' Width Dumped Rock
Channel Protection Lt. & Sta
562+36

Begin Prop. 6' Width Dumped Rock
Channel Protection Lt. & Sta
562+26

6'Sod

B14.2

End Prop 6' Width Sod
Ditch Lt. & Sta. 562+26

Begin Prop 6' Width
Sod Ditch Lt. &
Sta. 561+81

Ex. R/W
75'

B8.78
561+98
B19.09

Begin Prop. Guard Rail
Lt. & Sta. 561+83.12

Sta. 561+50

Sta. 561+50

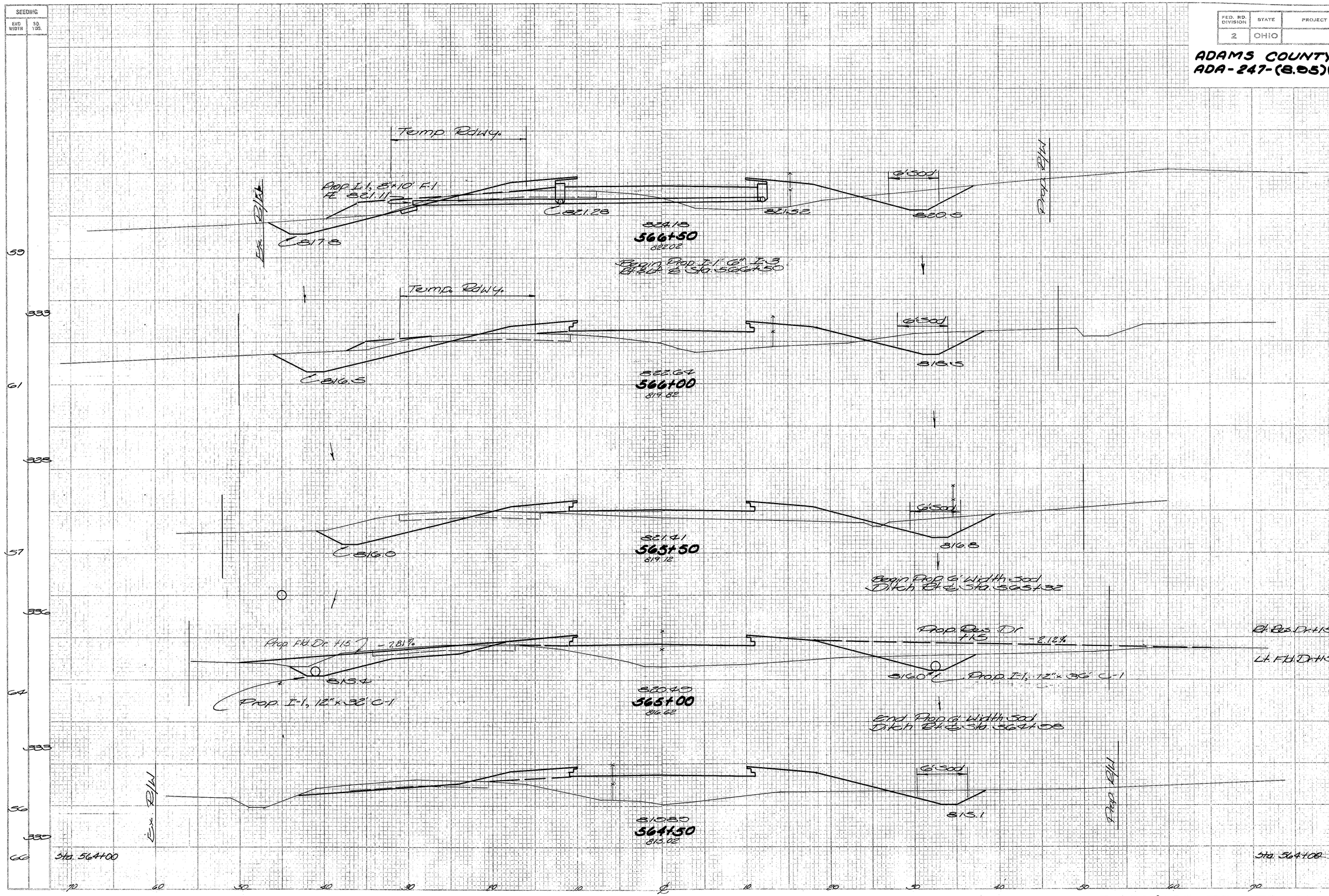
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

STA. 561+98 TO STA. 564+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

70

ADAMS COUNTY
ADA-247-(8.95)(14.20)



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
30	84		
		69	196
35	73		
		87	119
50	55		
		91	136
			41
39	92		85
		67	192
32	115		
		84	147
58	152		

STA 564+50 TO STA. 566+50

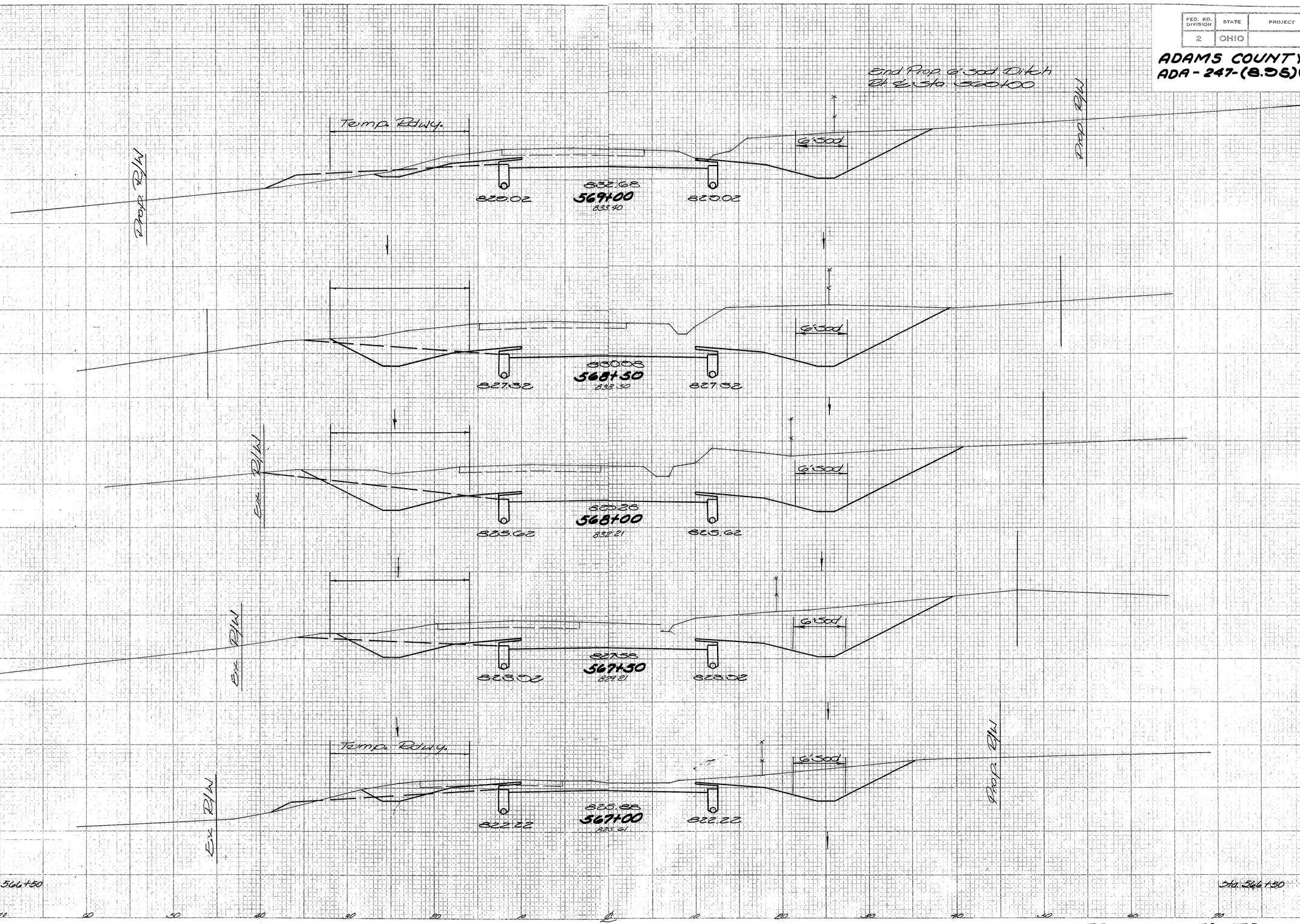
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

71

ADAMS COUNTY
ADA-247-(8.56)(14.20)

SEEDING	
END WIDTH	SQ YDS
40	244
48	351
53	281
48	242
30	278

END AREA		VOLUME	
CUT	FILL	CUT	FILL
140	0		
		306	0
381	0		
		530	0
313	0		
		188	0
215	0		
		200	0
98	0		
		127	78
30	87		

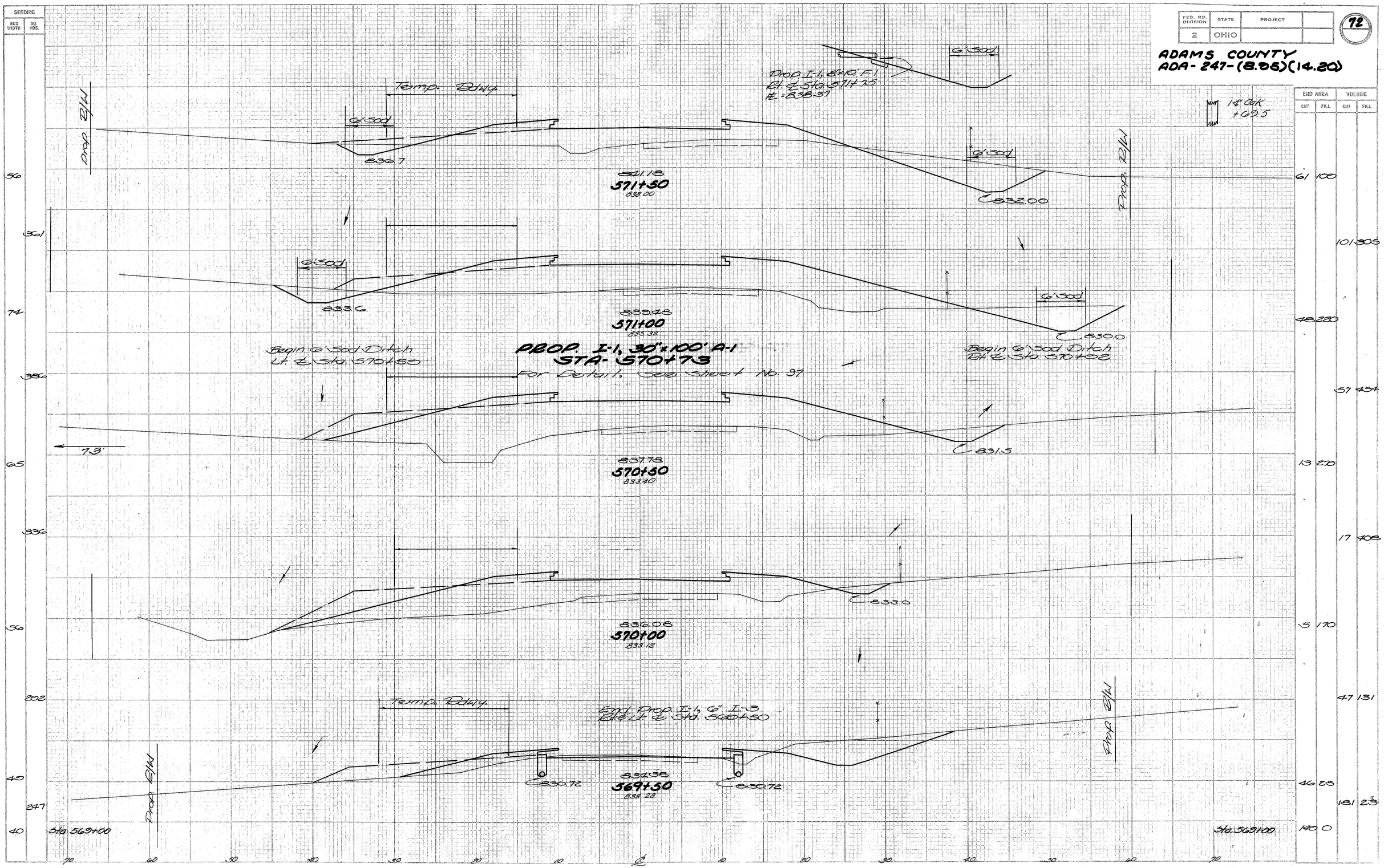


STA. 567+00 TO STA. 569+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

72

ADAMS COUNTY
ADA-247-(8.95)(14.20)

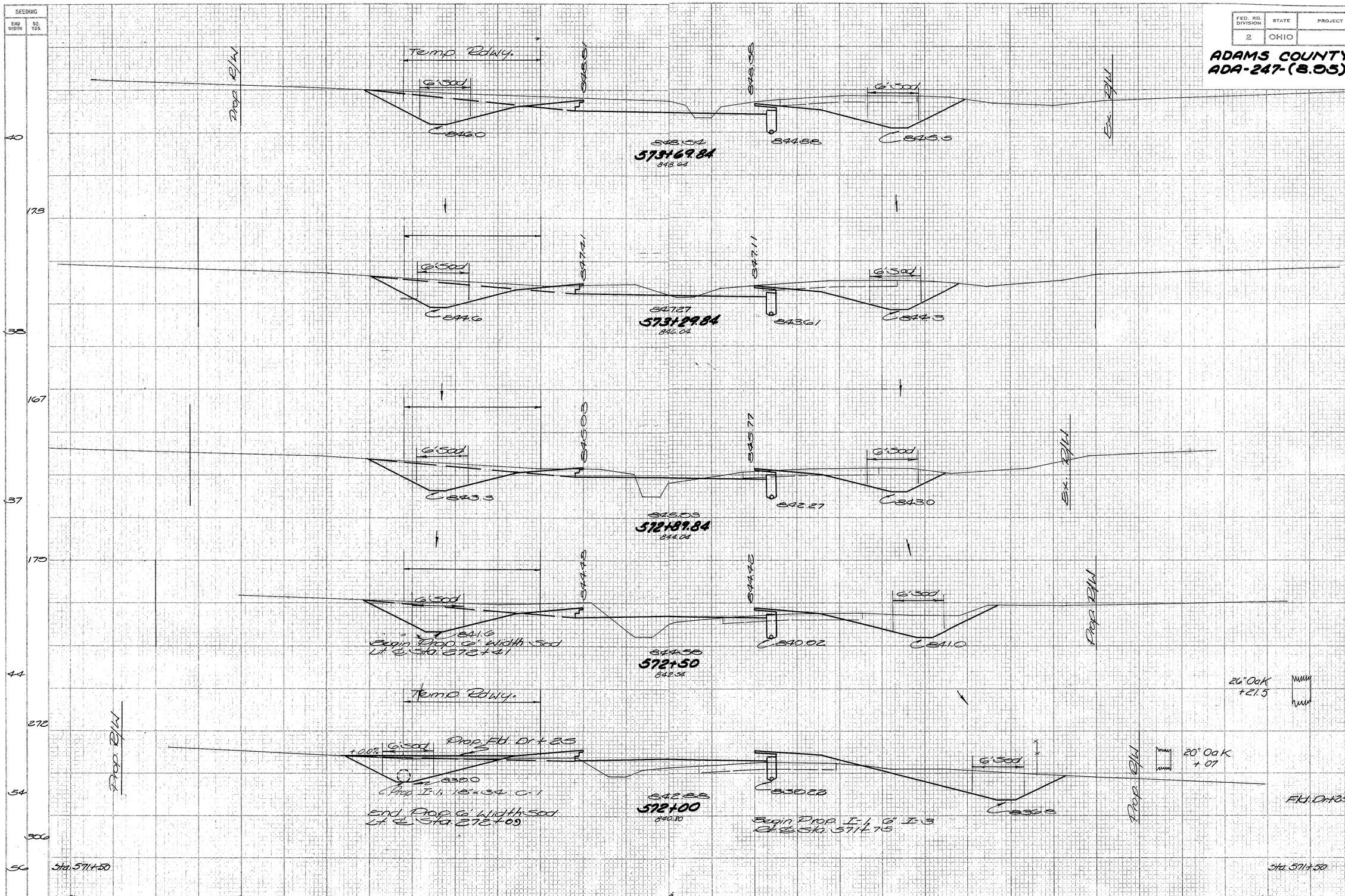


STA. 569+50 TO STA. 571+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

73

ADAMS COUNTY
ADA-247-(8.95)(14.20)



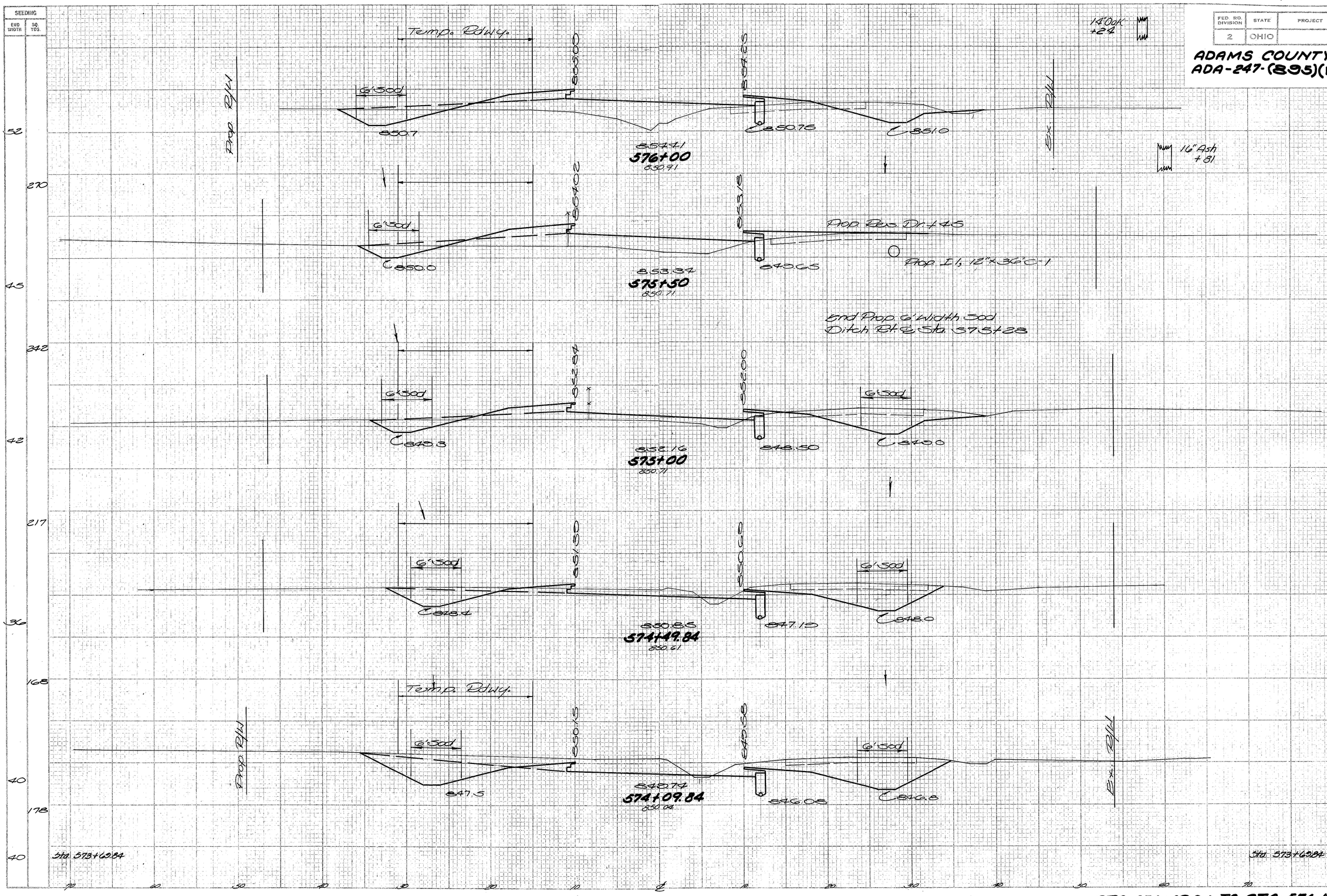
END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
128	1		
		166	2
96	1		
		131	8
81	9		
		126	20
90	18		
		153	50
		0	18
75	56		
		135	135
71	109		

STA. 572+00 TO STA. 573+69.84

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

74

ADAMS COUNTY
ADA-247-(895)(14.20)



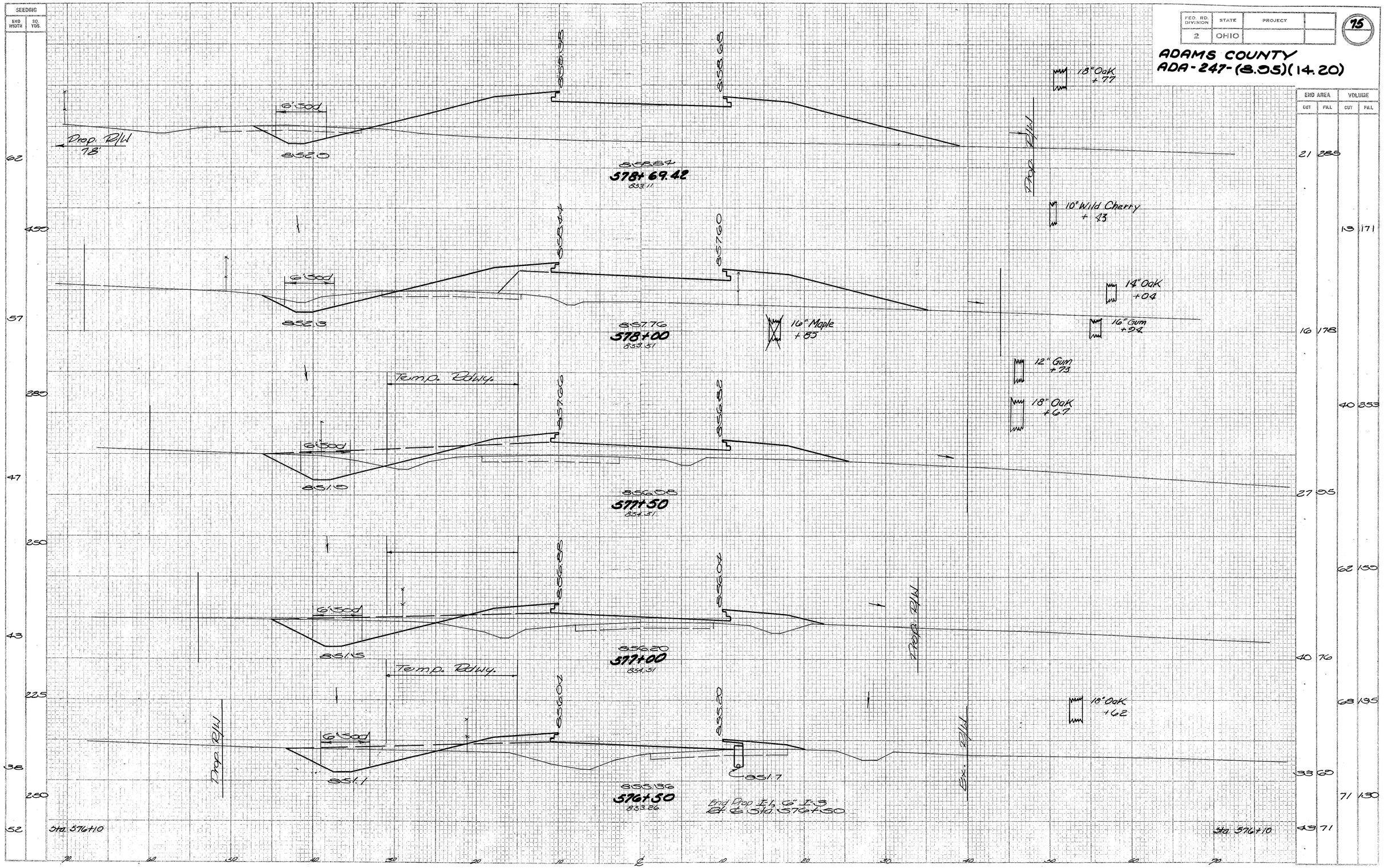
END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
43	71		
		93	128
8	67		
		51	93
47	33		
		62	34
78	4		
		227	4
128	1		
		190	2
128	1		

STA. 574+09.84 TO STA. 576+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

75

ADAMS COUNTY
ADA-247-(8.95)(14.20)



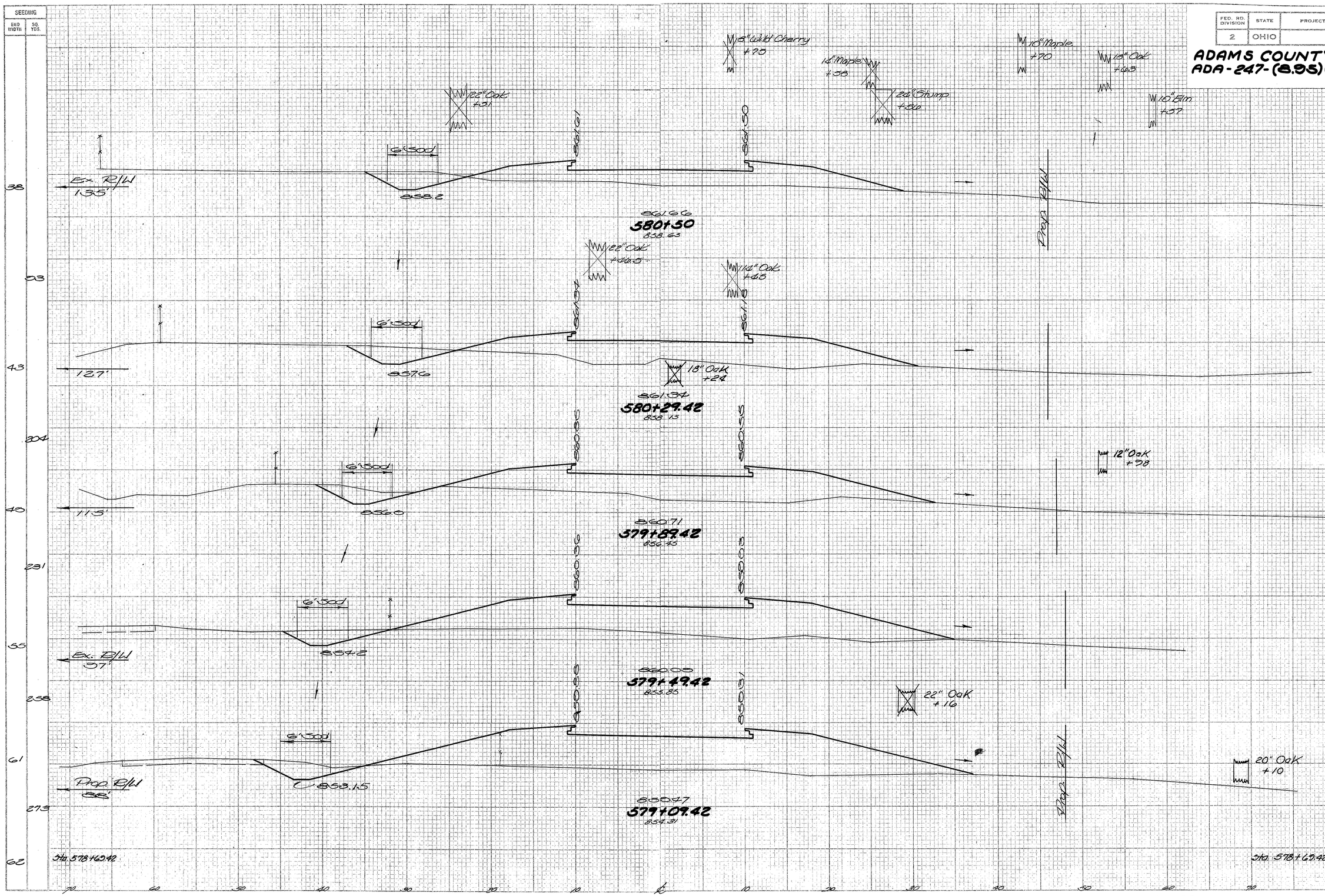
END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
21	285		
		13	171
16	178		
		40	253
27	95		
		62	155
40	76		
		68	135
33	69		
		71	130
43	71		

STA. 576+50 TO STA. 578+69.42

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

76

ADAMS COUNTY
ADA-247-(8.95)(14.20)



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
18	90		
		13	79
16	124		
		21	198
12	144		
		18	248
13	190		
		22	318
16	240		
		28	385
21	285		

STA. 579+09.42 TO STA. 580+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

77

ADAMS COUNTY
ADA-247-(8.95)(14.20)

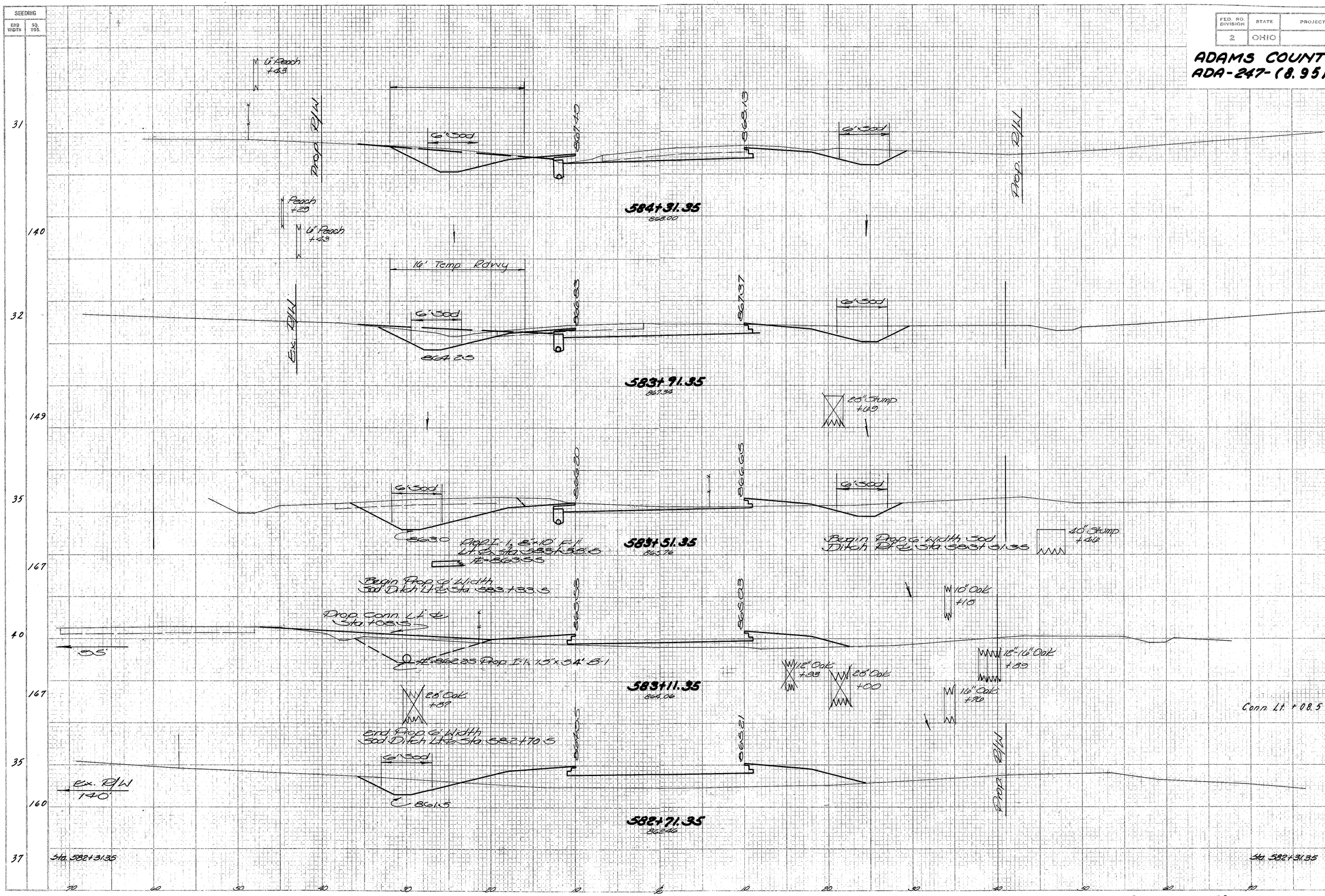
SEEDING		END AREA		VOLUME	
END WIDTH	SQ YDS.	CUT	FILL	CUT	FILL
37	134	12		100	
40		15		95	
42	228	14		109	27189
41	231				24189
38	219	12		95	28177
		18		90	

STA. 581+00 TO STA. 582+91.35

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

78

ADAMS COUNTY
ADA-247-(8.95)(14.20)



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
77	1		
		4	1
65	0		
		106	4
78	5		
		75	32
23	38		
		0	39
		28	91
14	85		
		19	137
12	100		

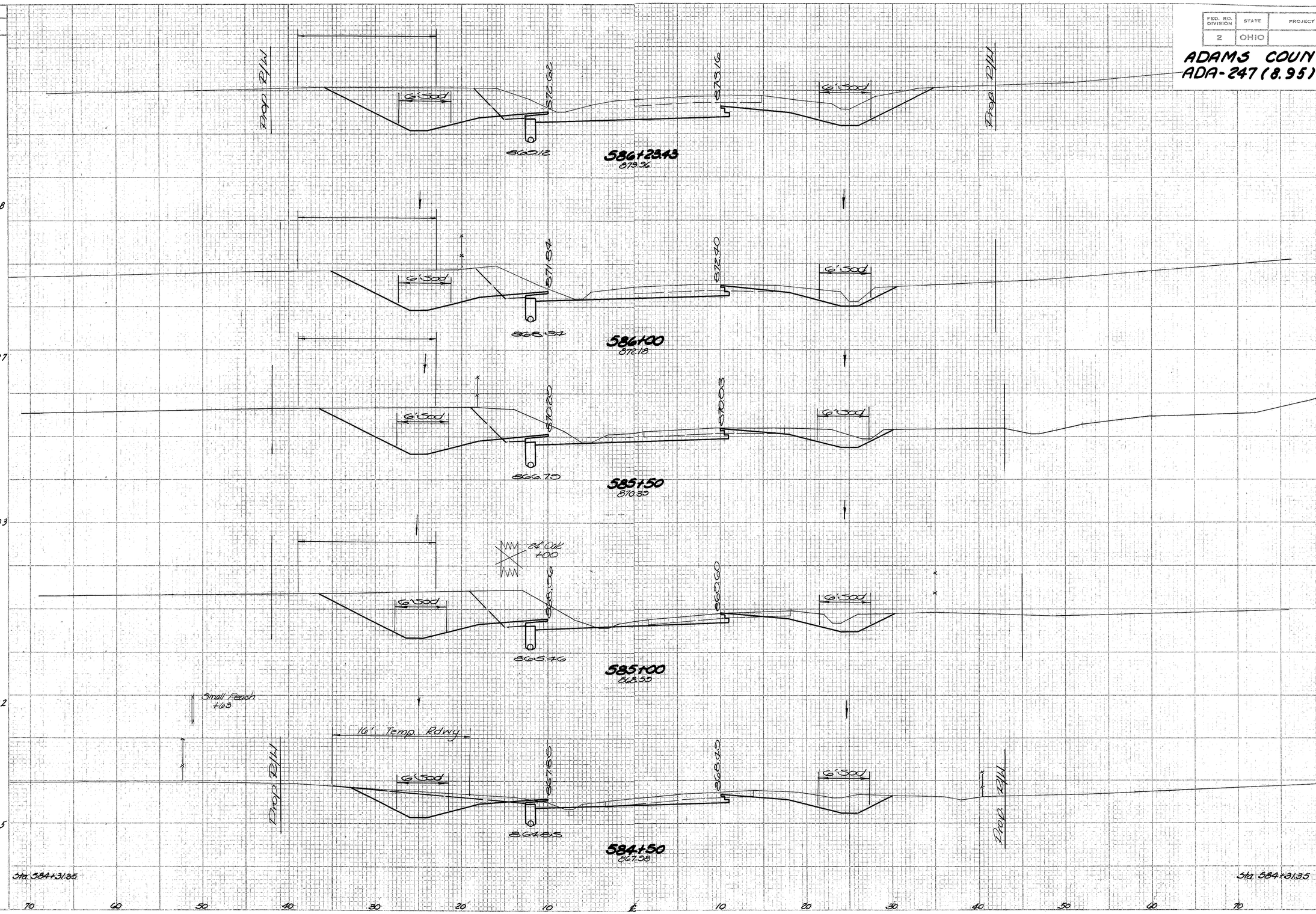
STA. 582+71.35 TO STA. 584+31.35

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

79

ADAMS COUNTY
ADA-247 (8.95) (14.20)

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
41		180	0		
	98			128	0
35		115	0		
	197			144	0
36		140	0		
	203			254	0
37		134	0		
	192			195	1
32		77	1		
	65			54	1
31		77	1		

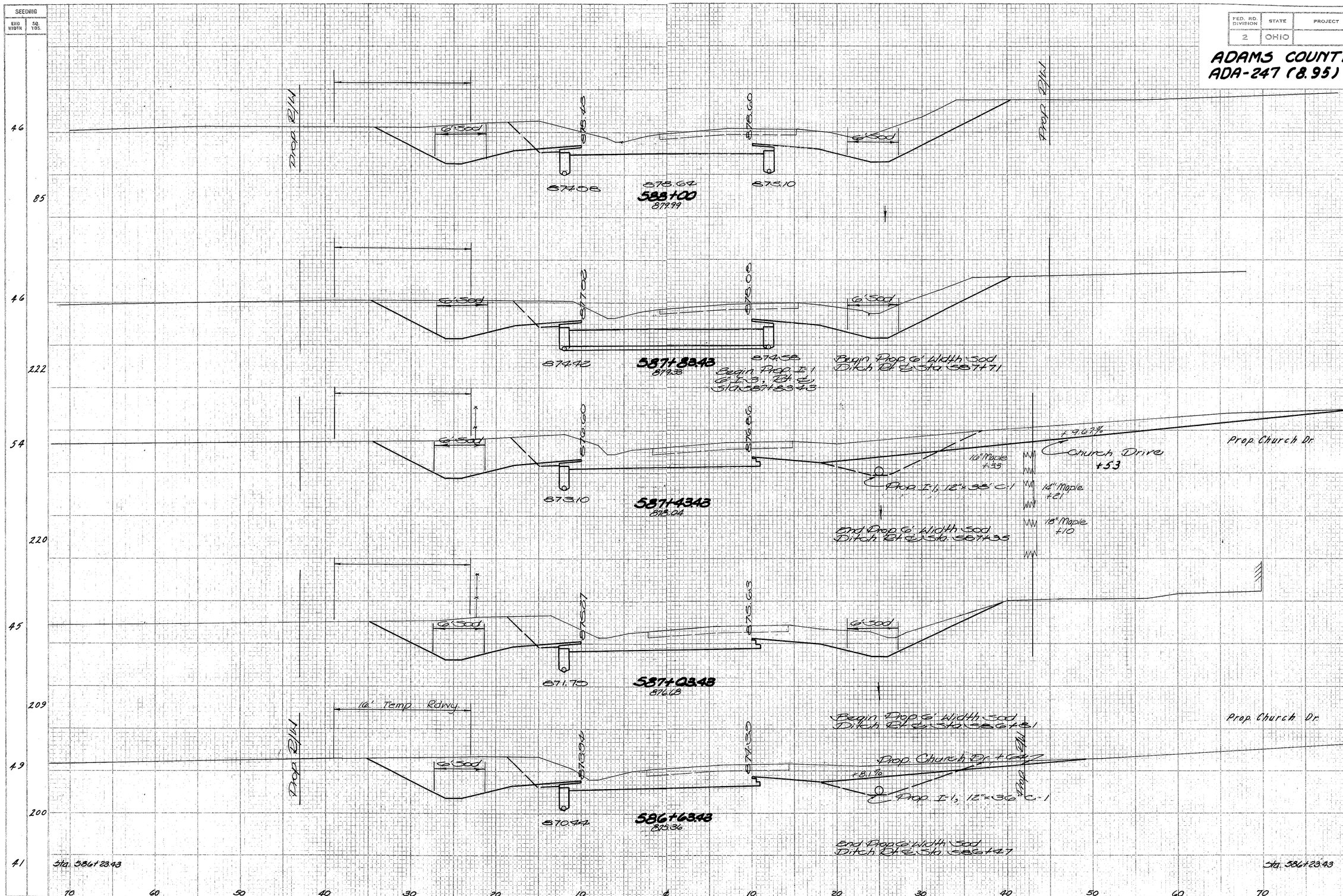


STA. 584+50 TO STA. 586+23.43

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

80

ADAMS COUNTY
ADA-247 (8.95) (14.20)



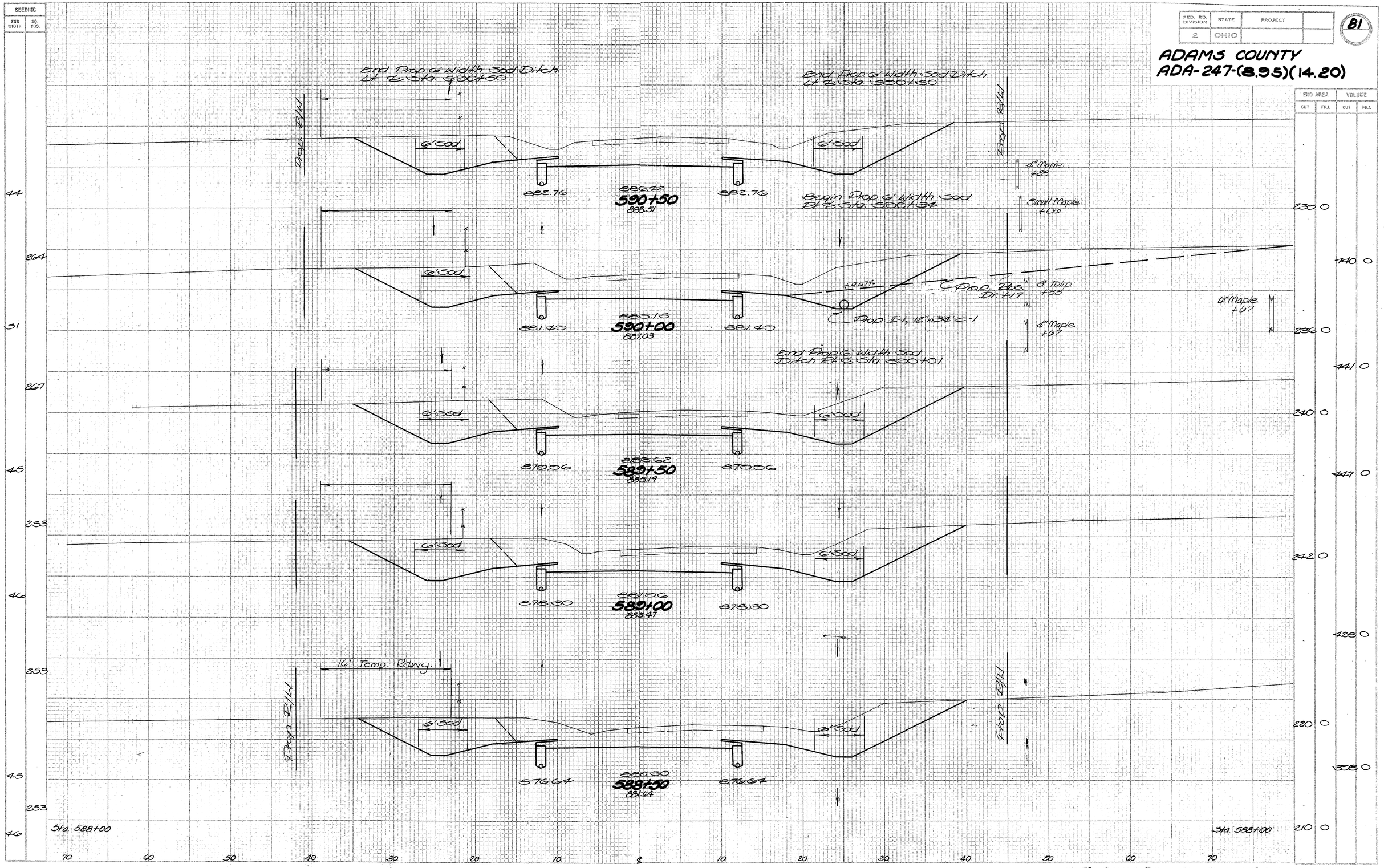
END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
210	0		
		131	0
220	0		
		323	0
216	0		
		36	14
		271	0
150	0		
		221	0
		9	13
148	0		
		243	0
180	0		

STA. 586+63.43 TO STA. 588+0

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

81

ADAMS COUNTY
ADA-247-(8.95)(14.20)

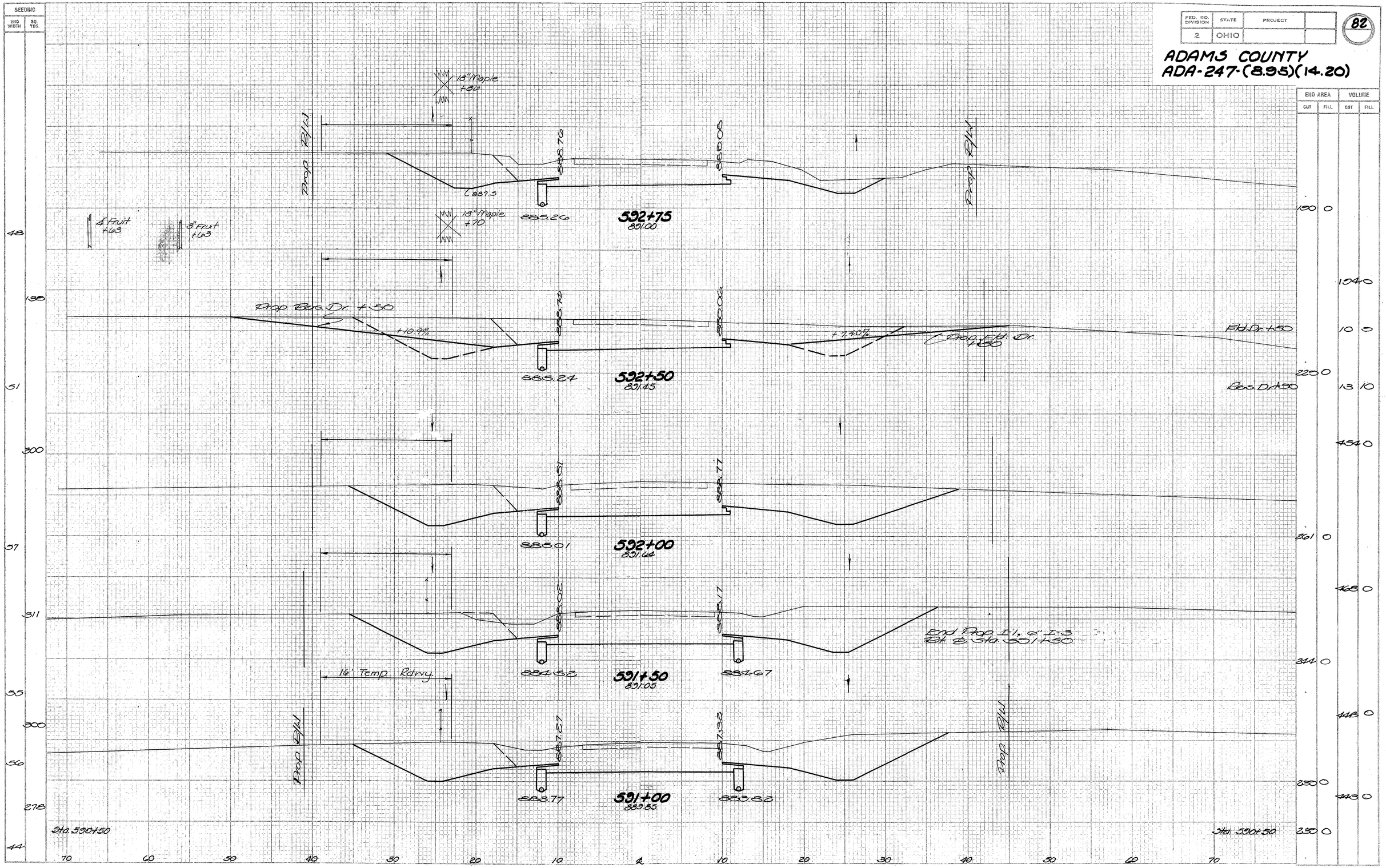


STA. 588+50 TO STA. 590+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

82

ADAMS COUNTY
ADA-247-(8.95)(14.20)

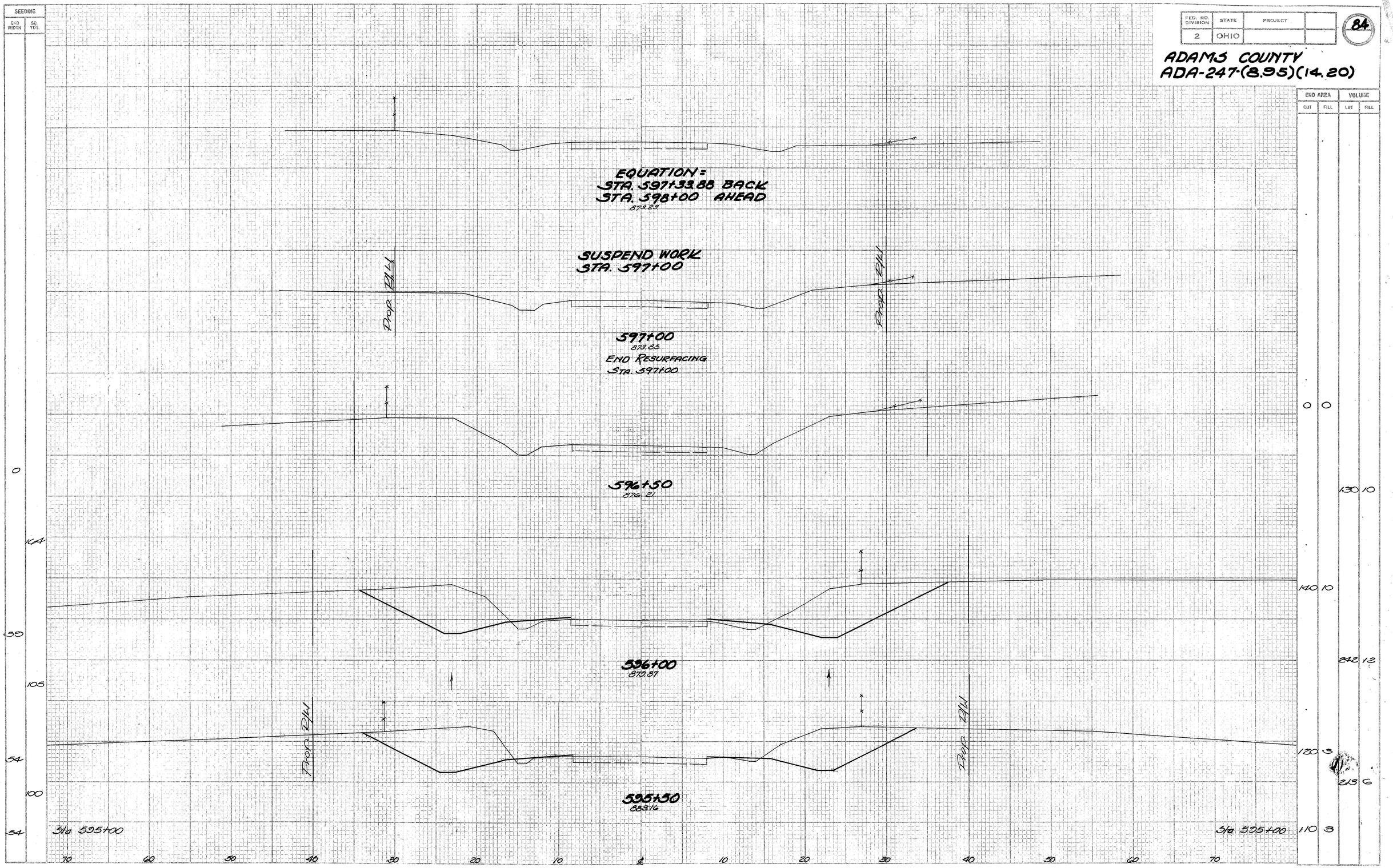


STA. 591+0 TO STA. 592+75

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

84

ADAMS COUNTY
ADA-247-(8.95)(14.20)

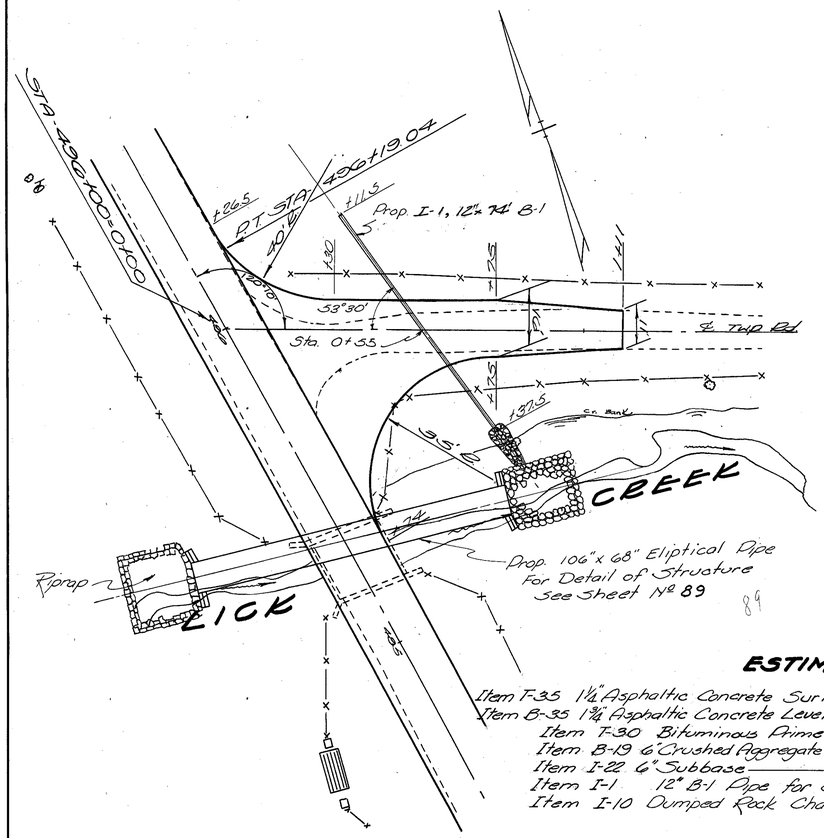


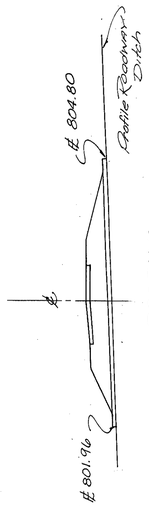
STA. 595+50 TO STA. 596+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

85

ADAMS COUNTY
ADA-247-(8.95)(14.20)

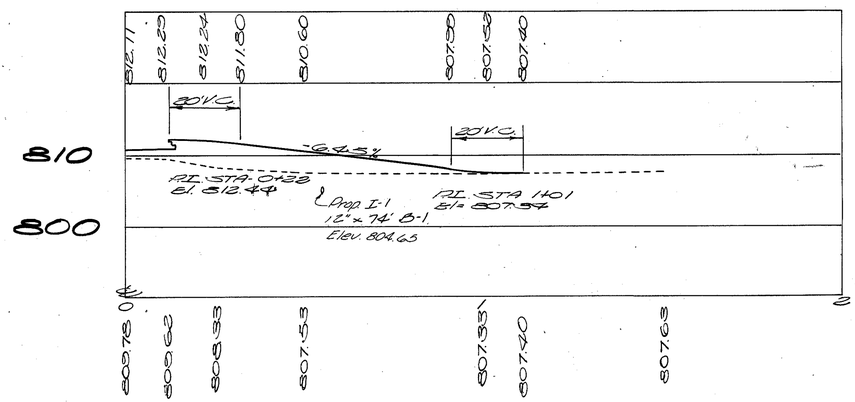




ESTIMATED QUANTITIES

Item T-35 1¼" Asphaltic Concrete Surface Course Type "C" (85-100)	258.7 Sq. Yds.
Item B-35 1¾" Asphaltic Concrete Leveling Course	258.7 Sq. Yds.
Item T-30 Bituminous Prime Coat @ 0.4 Gals per Sq. Yd.	271.3 Sq. Yds.
Item B-19 6" Crushed Aggregate Base	271.3 Sq. Yds.
Item I-22 6" Subbase	2839 Sq. Yds.
Item I-1 12" B-1 Pipe for Connection Sec. M-6.5(b) M-6.6(a) or M-6.8(b)	74 Lin. Ft.
Item I-10 Dumped Rock Channel Protection	5 Cu. Yds.

PLAN
Scale: 1"=20'

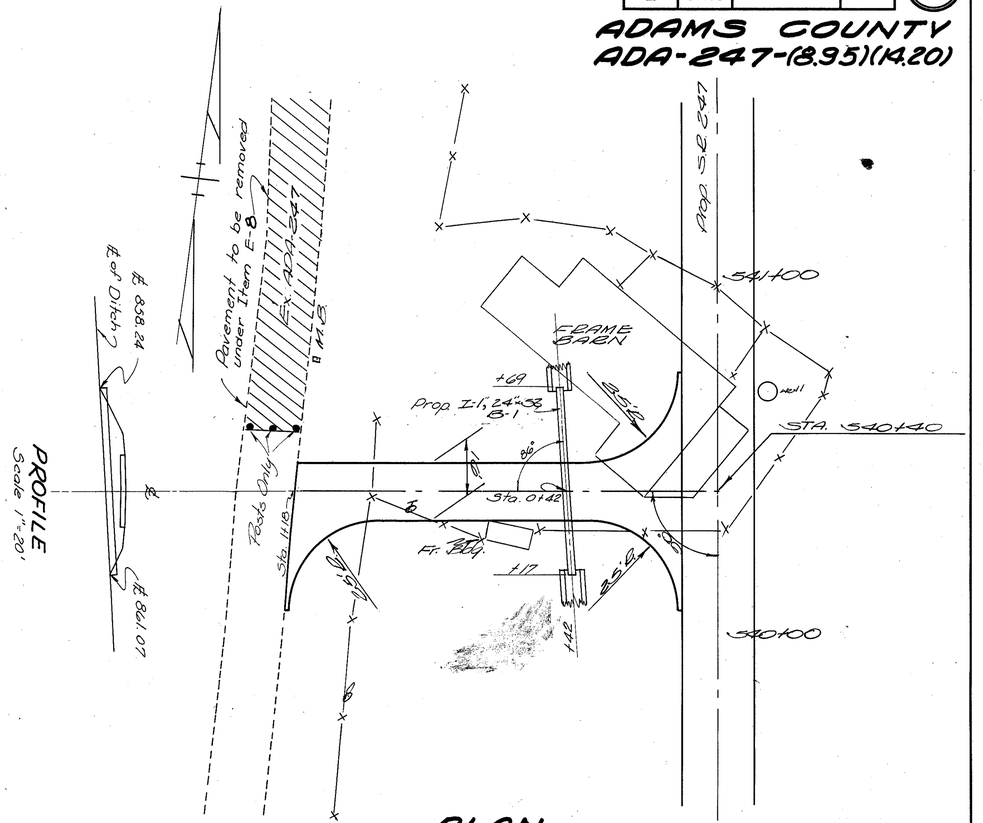


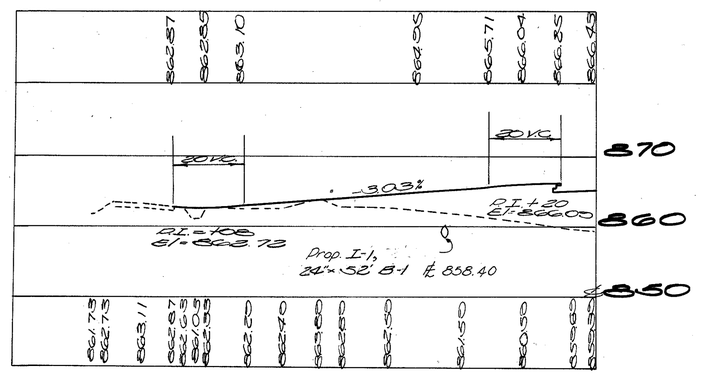
SECTION
Horizontal: 1"=20'
Vertical: 1"=10'

TWNSHP. RD.
RT. STA 496+00

ESTIMATED QUANTITIES

Item T-35 1¼" Asphaltic Concrete Surface Course Type "C" (85-100)	244.4 Sq. Yds.
Item B-35 1¾" Asphaltic Concrete Leveling Course	244.4 Sq. Yds.
Item T-30 Bituminous Prime Coat @ 0.4 Gals per Sq. Yd.	258.6 Sq. Yds.
Item B-19 6" Aggregate Base	258.6 Sq. Yds.
Item I-22 6" Subbase	272.8 Sq. Yds.
Item I-1 24" B-1 Pipe for Connection Sec. M-6.6(a) or M-6.8(b)	52 Lin. Ft.





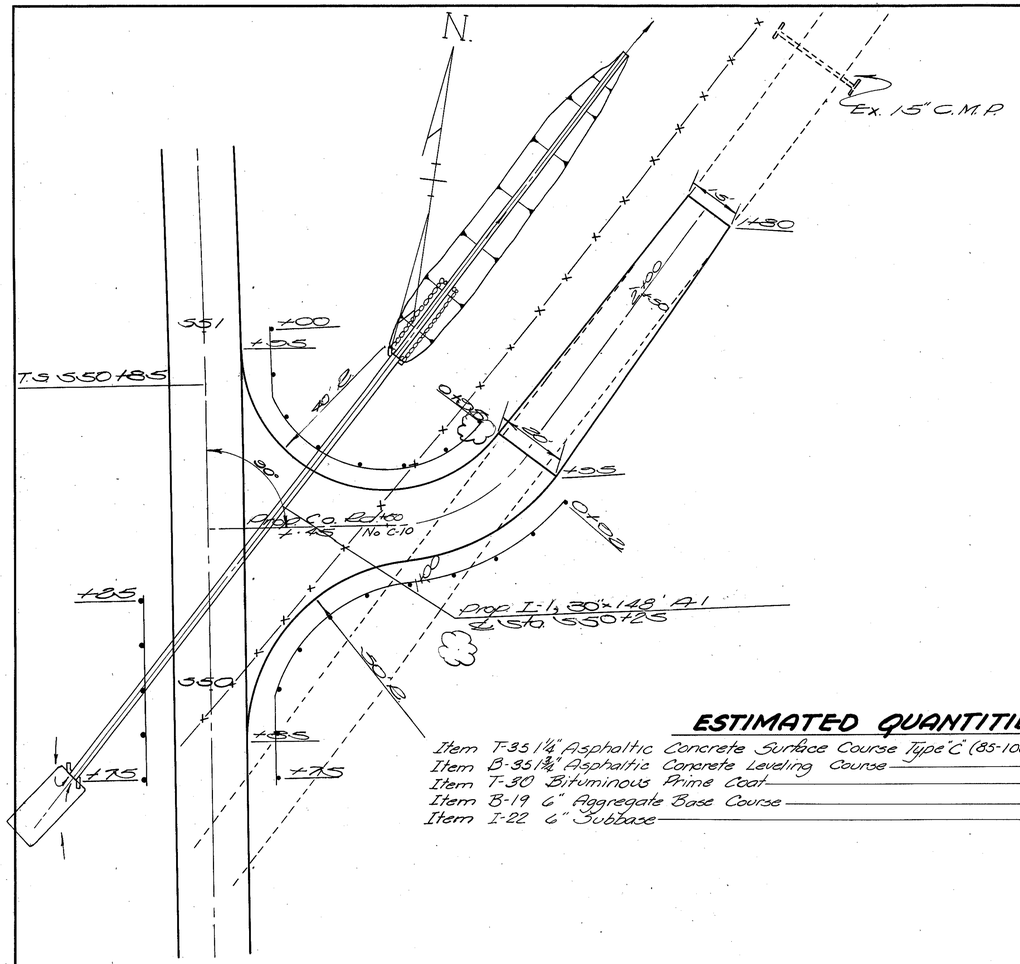
PROFILE
Horizontal: 1"=20'
Vertical: 1"=10'

CONNECTION
LT. & STA. 540+40

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

86

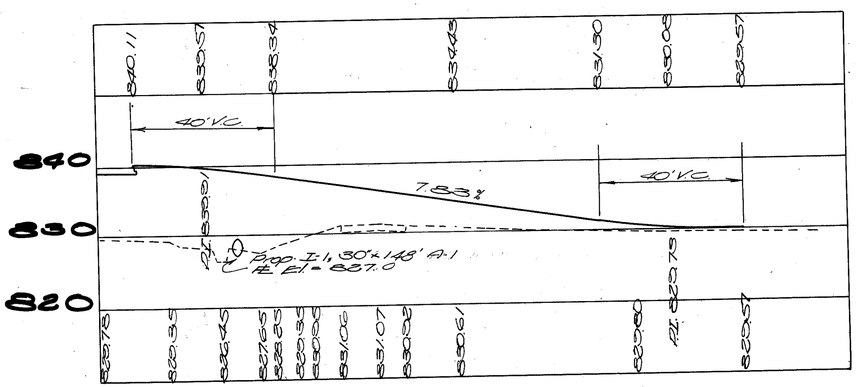
ADAMS COUNTY
ADA-247-(8.95)(19.20)



ESTIMATED QUANTITIES

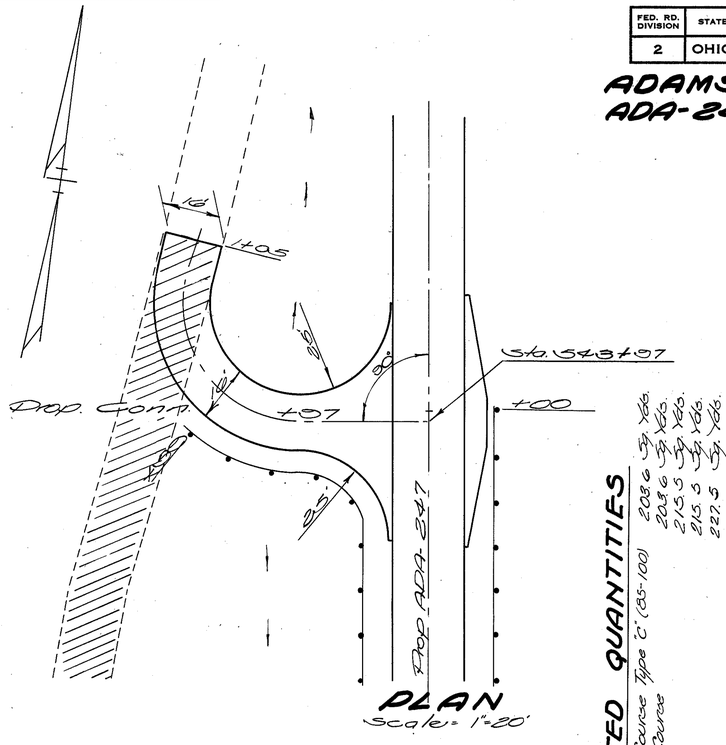
Item T-35	1½" Asphaltic Concrete Surface Course Type "C" (85-100)	481.6 Sq. Yds.
Item B-35	1¾" Asphaltic Concrete Leveling Course	481.6 Sq. Yds.
Item T-30	Bituminous Prime Coat	493.8 Sq. Yds.
Item B-19	6" Aggregate Base Course	493.8 Sq. Yds.
Item I-22	6" Subbase	506.0 Sq. Yds.

PLAN
Scale: 1"=20'

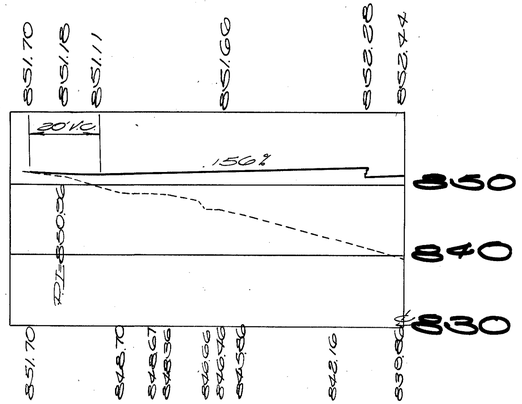


SECTION
Horizontal: 1"=20'
Vertical: 1"=10'

APPROACH ON CO. RD.
BT. @ STA-550+45



PLAN
Scale: 1"=20'



SECTION
Horizontal = 1"=20'
Vertical = 1"=10'

ESTIMATED QUANTITIES

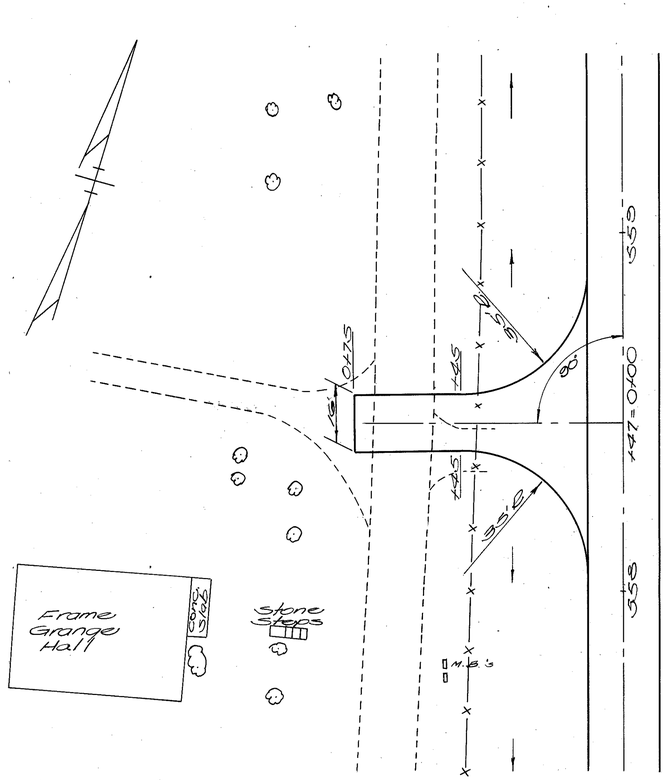
Item T-35	1½" Asphaltic Concrete Surface Course Type "C" (85-100)	203.6 Sq. Yds.
Item B-35	1¾" Asphaltic Concrete Leveling Course	203.6 Sq. Yds.
Item T-30	Bituminous Prime Coat	215.3 Sq. Yds.
Item B-19	6" Aggregate Base Course	215.3 Sq. Yds.
Item I-22	6" Subbase	227.5 Sq. Yds.

PROP. CONN.
LT. @ STA-543+97

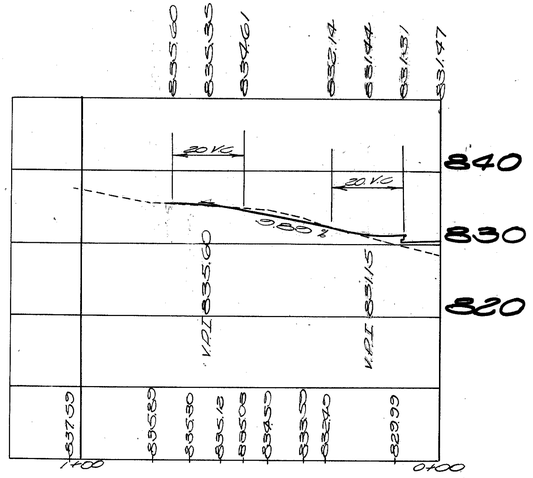
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

87

ADAMS COUNTY
ADA-247-(8.95)(14.20)



PLAN
Scale 1"=20'

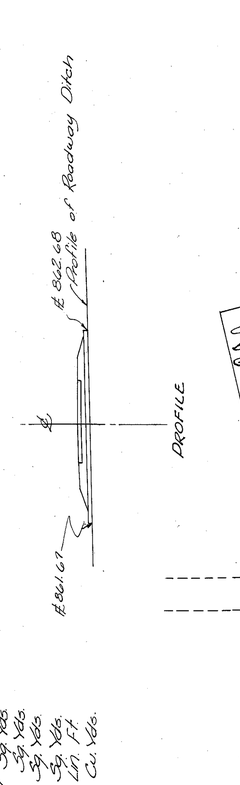


SECTION
Horizontal: 1"=20'
Vertical: 1"=10'

TWNSHP ROAD
Lt. ℄ STA. 558+47

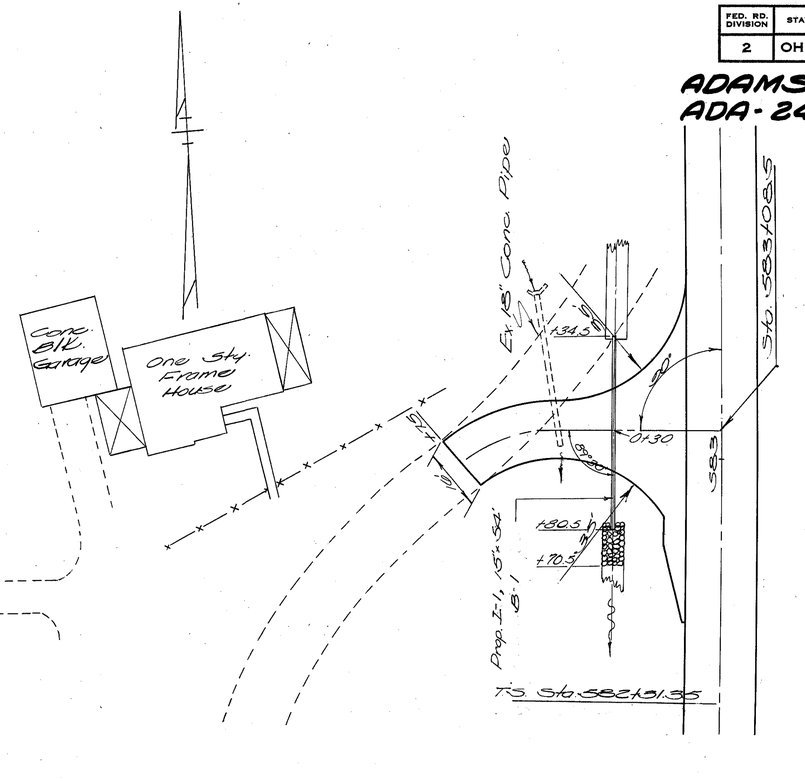
ESTIMATED QUANTITIES

Item T-35	1½" Asphaltic Concrete Surface Course, Type 'C' (65-100)	174 Sq. Yds.
Item B-35	1¾" Asphaltic Concrete Leveling Course	174 Sq. Yds.
Item T-30	Bituminous prime coat @ 0.4 gal/per Sq. Yds.	183.5 Sq. Yds.
Item B-19	6" Aggregate Base Course	183.5 Sq. Yds.
Item F-22	6" Subbase	192.9 Sq. Yds.

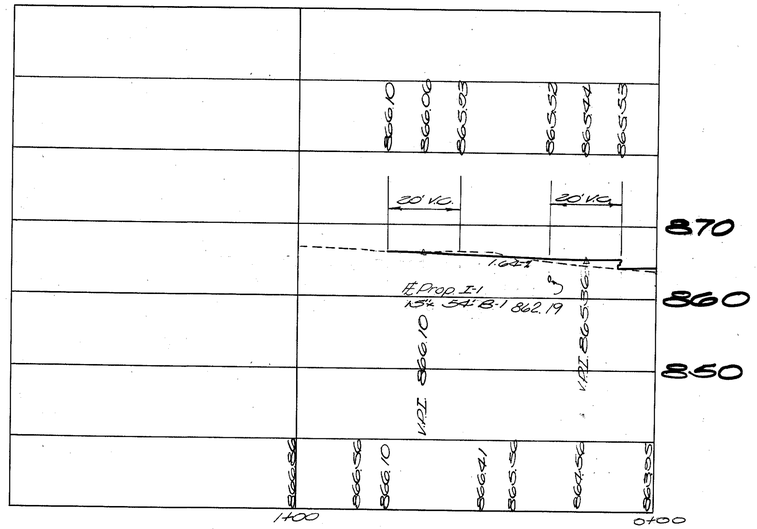


ESTIMATED QUANTITIES

Item T-35	1½" Asphaltic Concrete Surface Course, Type 'C' (65-100)	188.7 Sq. Yds.
Item B-35	1¾" Asphaltic Concrete Leveling Course	188.7 Sq. Yds.
Item T-30	Bituminous Prime Coat @ 0.4 Gal/per Sq. Yds.	198.4 Sq. Yds.
Item B-19	6" Aggregate Base Course	198.4 Sq. Yds.
Item F-22	6" Subbase	208.1 Sq. Yds.
Item E-1	15" B-1 Pipe for Connection Sec. M-6.5(2), M-6.6(6) or M-6.8(6)	54 Lin. Ft.
Item E-10	Dumped Rock Channel Protection	7 Cu. Yds.



PLAN
Scale 1"=20'



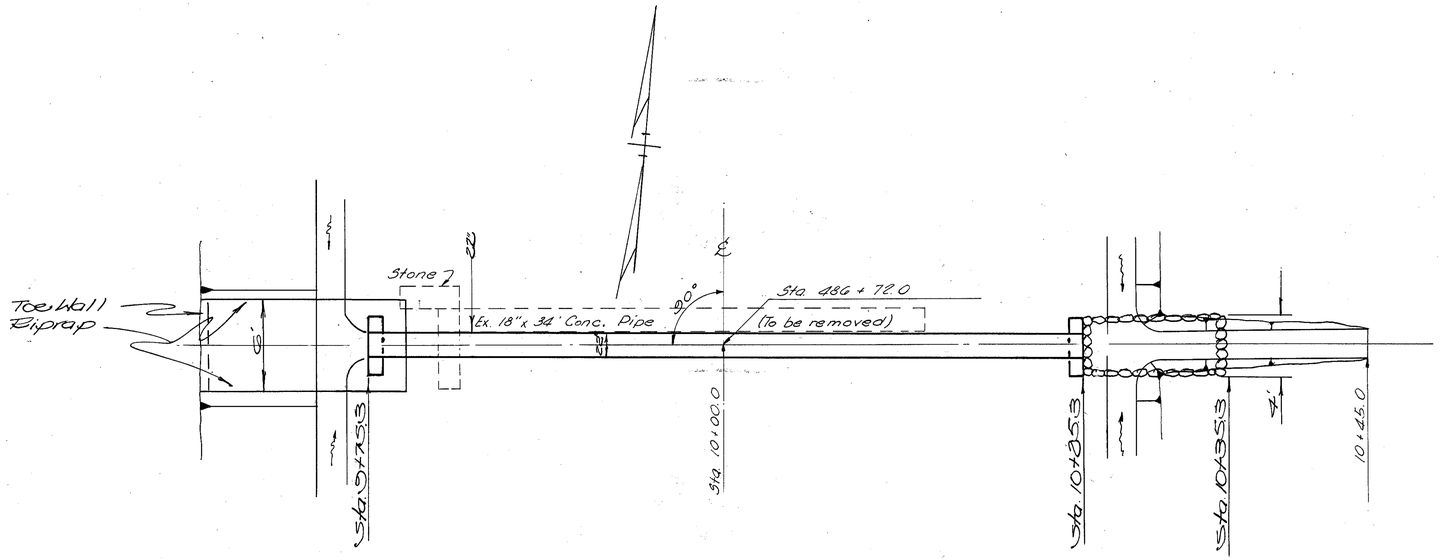
SECTION
Horizontal: 1"=20'
Vertical: 1"=10'

PROP CONNECTION
Lt. ℄. Sta. 583+08.5

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

88

ADAMS COUNTY
ADA - 247-(8.95)(14.20)



PLAN
Scale 1"=5'

CULVERT DATA

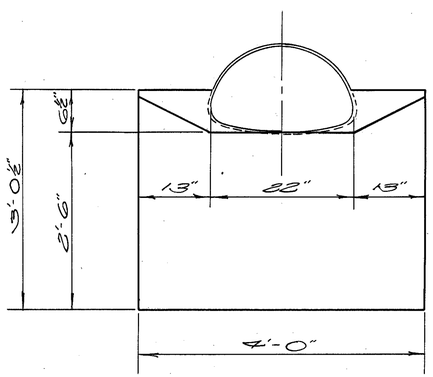
Type : C.M.P. Sec. M-6.4(i)(d)
Size : 22" x 13" x 50'
Work Req'd: Build 22"x13"x50' Pipe Culvert with Endwalls (as per plan) at Inlet and Outlet. Excavate channel. Remove Existing Structure.
Place Riprap And D.R.C.P. (as per plan).

DRAINAGE AREA = 3.0 Acres
Q_{10} = 3 c.f.s.

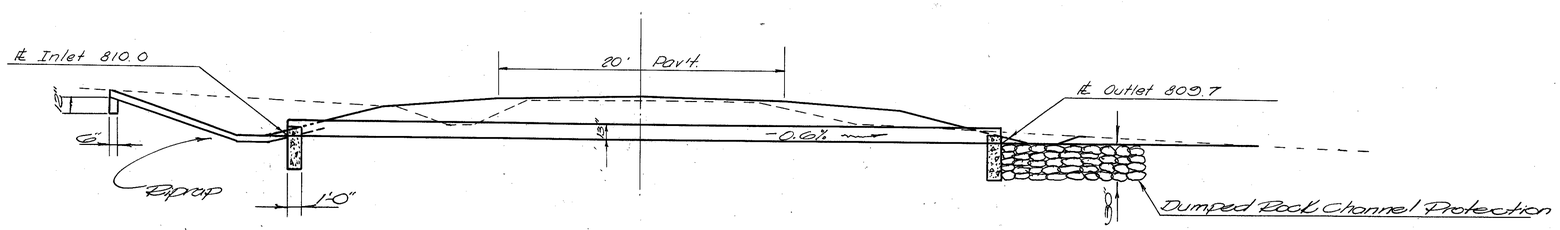
ESTIMATED QUANTITIES

Item E-3	Channel Excavation	2 C.Y.
Item I-2	Masonry - Class "C" -	0.88 C.Y.
Item E-12	Removal of Existing 18" pipe	34 Lin. Ft.
Item I-1	22" x 13" C.M.P.-Arch - Class G-1 Sec M-6.4(i)(d)	50 L.F.
Item I-10	Riprap	10 Sq. Yds.
Item I-10	Dumped Rock Channel Protection	4 Cu. Yds.

NOTE: Excavation For Structure Shall Be Included In Unit Price Bid For Structure.



DETAIL OF END WALL
Scale 1"=10'



SECTION
Scale 1"=5'

ADA-247-0922

(1)
PIPE CULVERT
STA. 486 + 72

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

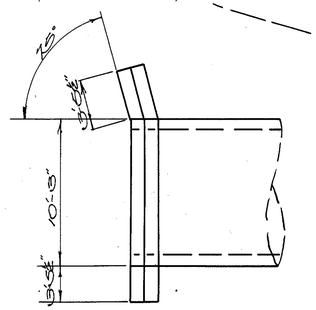
89

ADAMS COUNTY
ADA-247-(8.95)(14.20)

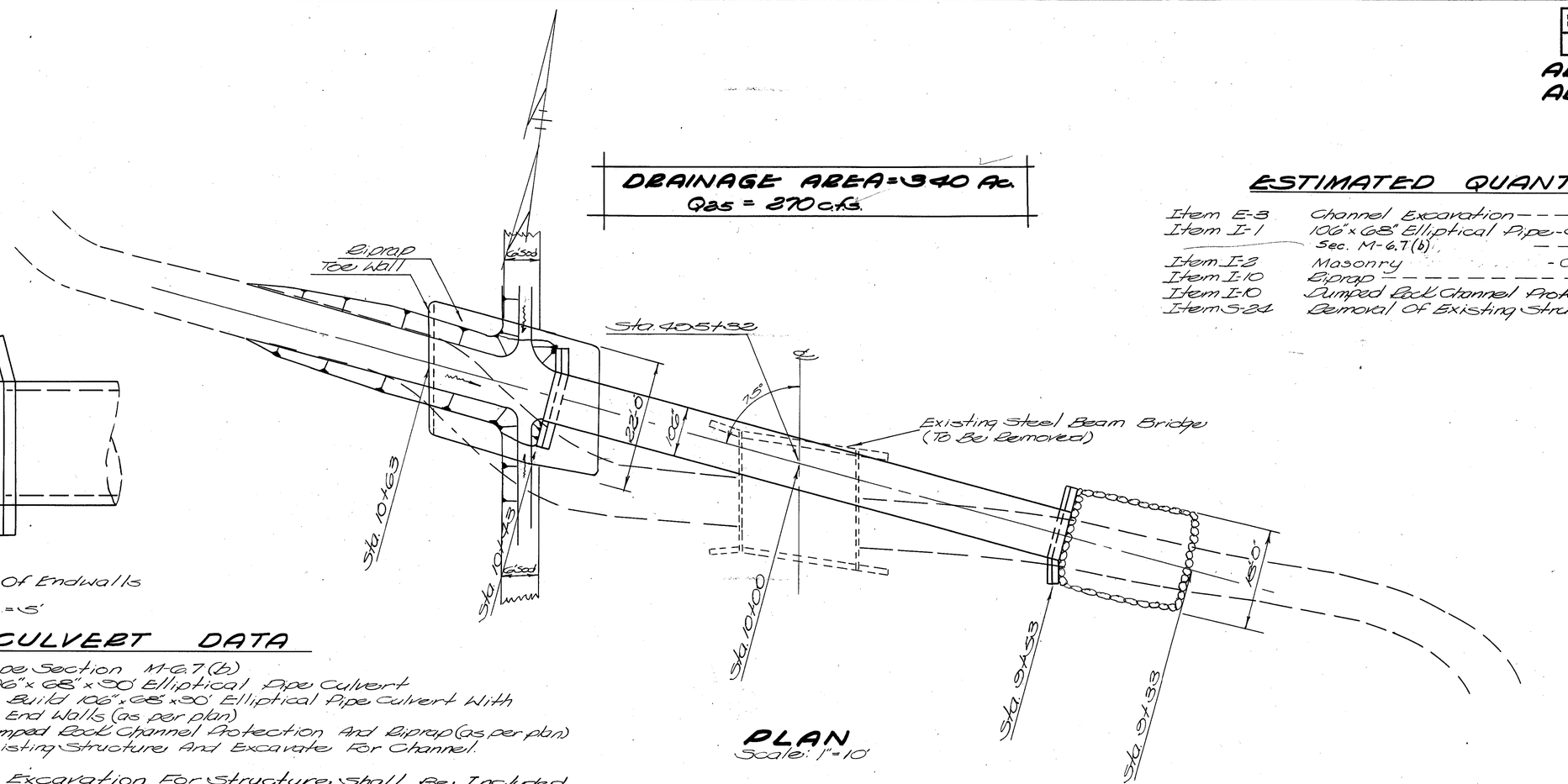
DRAINAGE AREA = 340 Ac.
Q25 = 270 c.f.s.

ESTIMATED QUANTITIES

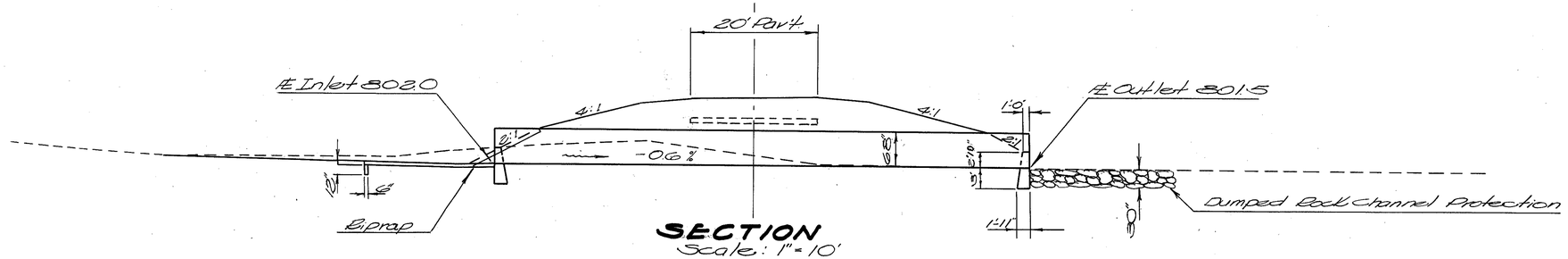
Item E-3	Channel Excavation	14 Cu. Yds.
Item I-1	106" x 68" Elliptical Pipe-Class G-1 Sec. M-6.7(b)	30 L.F.
Item I-2	Masonry - Class "C"	10.06 Cu. Yds.
Item I-10	Riprap	68 Sq. Yds.
Item I-10	Dumped Rock Channel Protection	33 Cu. Yds.
Item S-24	Removal Of Existing Structure	Lump



Plan View Of Endwalls
Scale: 1" = 5'



PLAN
Scale: 1" = 10'



SECTION
Scale: 1" = 10'

Datum Line 780.0

CULVERT DATA

Type: Pipe Section M-6.7(b)
Size: 106" x 68" x 30' Elliptical Pipe Culvert
Work Regd: Build 106" x 68" x 30' Elliptical Pipe Culvert With End Walls (as per plan)
Place Dumped Rock Channel Protection And Riprap (as per plan)
Remove Existing Structure And Excavate For Channel.

NOTE: Excavation For Structure Shall Be Included In Unit Price Bid For Structure.

2

ADA-247-0938

ABOR E.B.G.R. CULVERT
STA. 495+32

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

90

ADAMS COUNTY
ADA-247-(8.95)(14.20)

CULVERT DATA

Type: Pipe Sec. M-6.6(b) or M-6.8(b)
Size: 30" x 76'
Work Req'd: Build 30" x 76' Pipe culvert with Std. HW-E End Walls.
Place Dumped Rock Channel Protection and Riprap as Per Plan.
Remove Existing Structure and Excavate For Channel

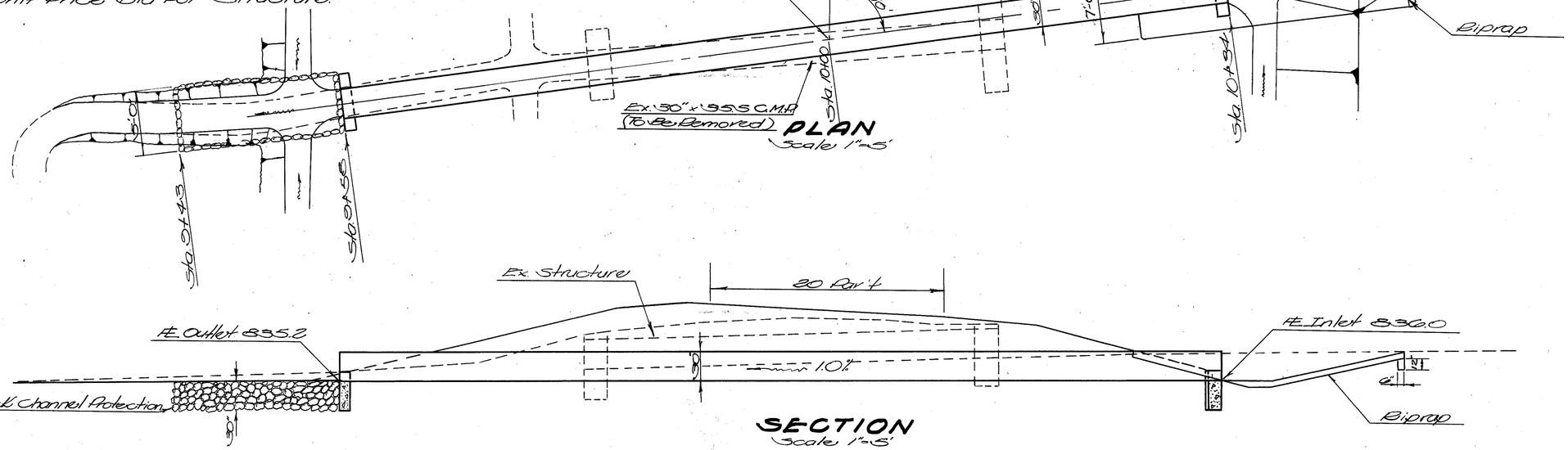
NOTE: Reference Shall Be Made To Std. Const. Drawing HW-E

Excavation For Structure Shall Be Included In Unit Price Bid For Structure.

DRAINAGE AREA = 16 Ac.
Q10 = 27 c.f.s.

ESTIMATED QUANTITIES

Item E-3	Channel Excavation	1 Cu. Yd.
Item I-1	30" Pipe - Class A-1 sec. M-6.6(b) or M-6.8(b)	76' L.F.
Item I-10	Riprap	18.59 Yds.
Item I-10	Dumped Rock Channel Protection	7 Cu. Yds.
Item E-12	Removal of Existing Structure	35.5 L.F.
Item I-3	Masonry Class "C"	1.08 Cu. Yds.



Datum Line = 830'

3

ADA-247-0979

PROP. PIPE CULVERT
STA-516+80.0

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

91

ADAMS COUNTY
ADA-247-(8.95)(19.20)

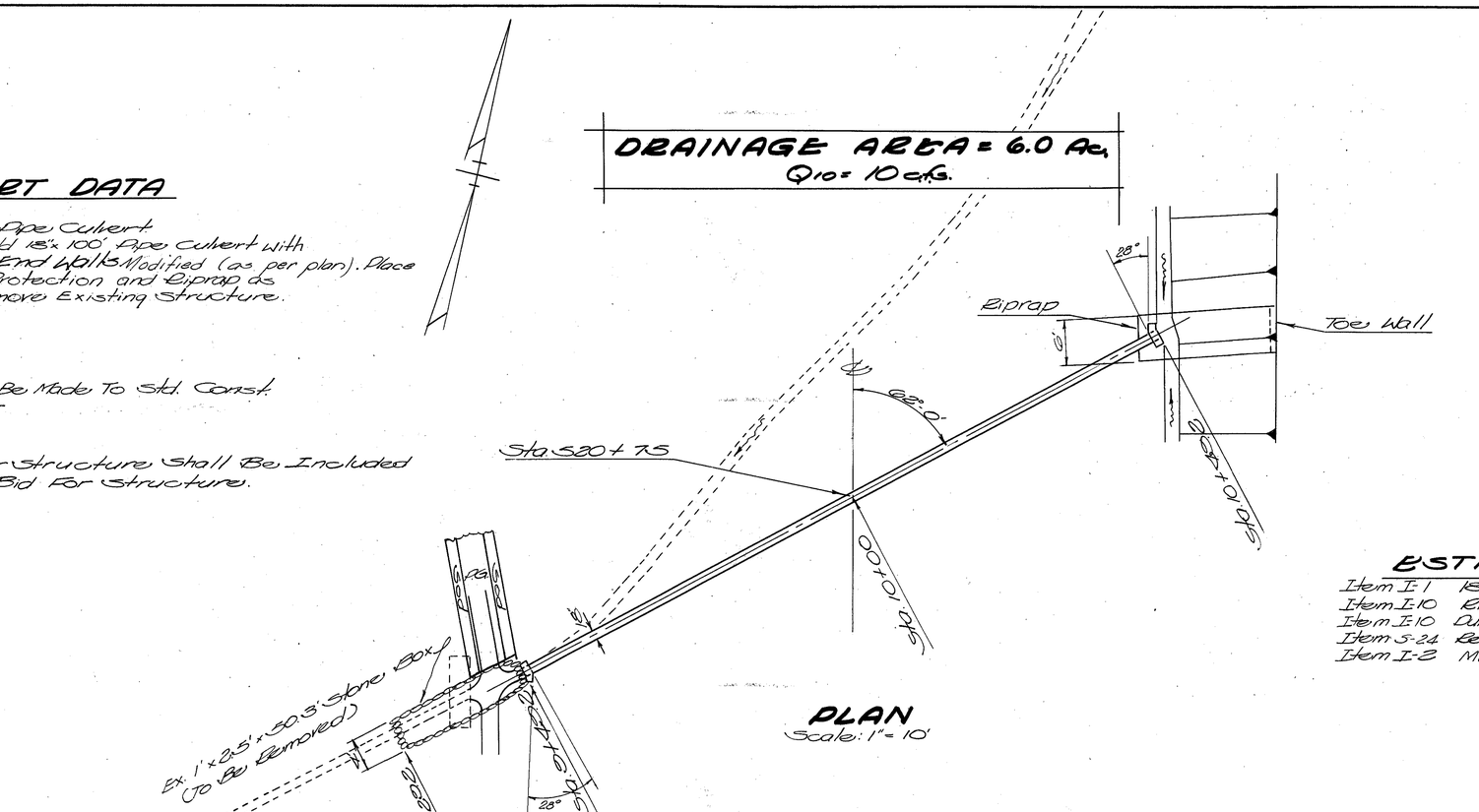
CULVERT DATA

Type: Pipe
Size: 18" x 100' Pipe Culvert
Work Req't: Build 18" x 100' Pipe Culvert with Std. HW-E End Walls Modified (as per plan). Place Dumped Rock Channel Protection and Riprap as per Plan. Remove Existing Structure.

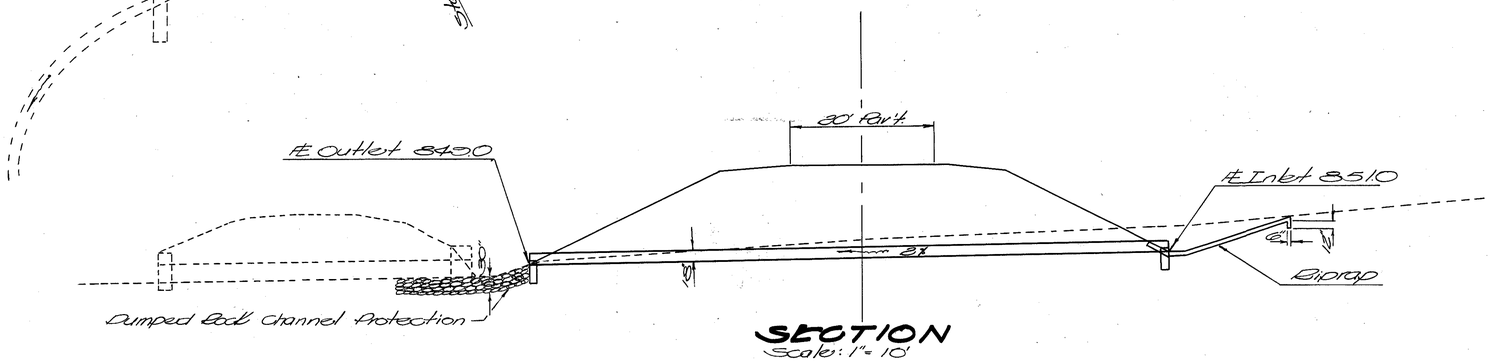
NOTE: Reference Shall Be Made To Std. Const. Drawing HW-E

Excavation For Structure Shall Be Included In Unit Price Bid For Structure.

DRAINAGE AREA = 6.0 Ac.
Q10 = 10 c.f.s.



PLAN
Scale: 1" = 10'



SECTION
Scale: 1" = 10'

DATUM LINE = 820'

ESTIMATED QUANTITIES

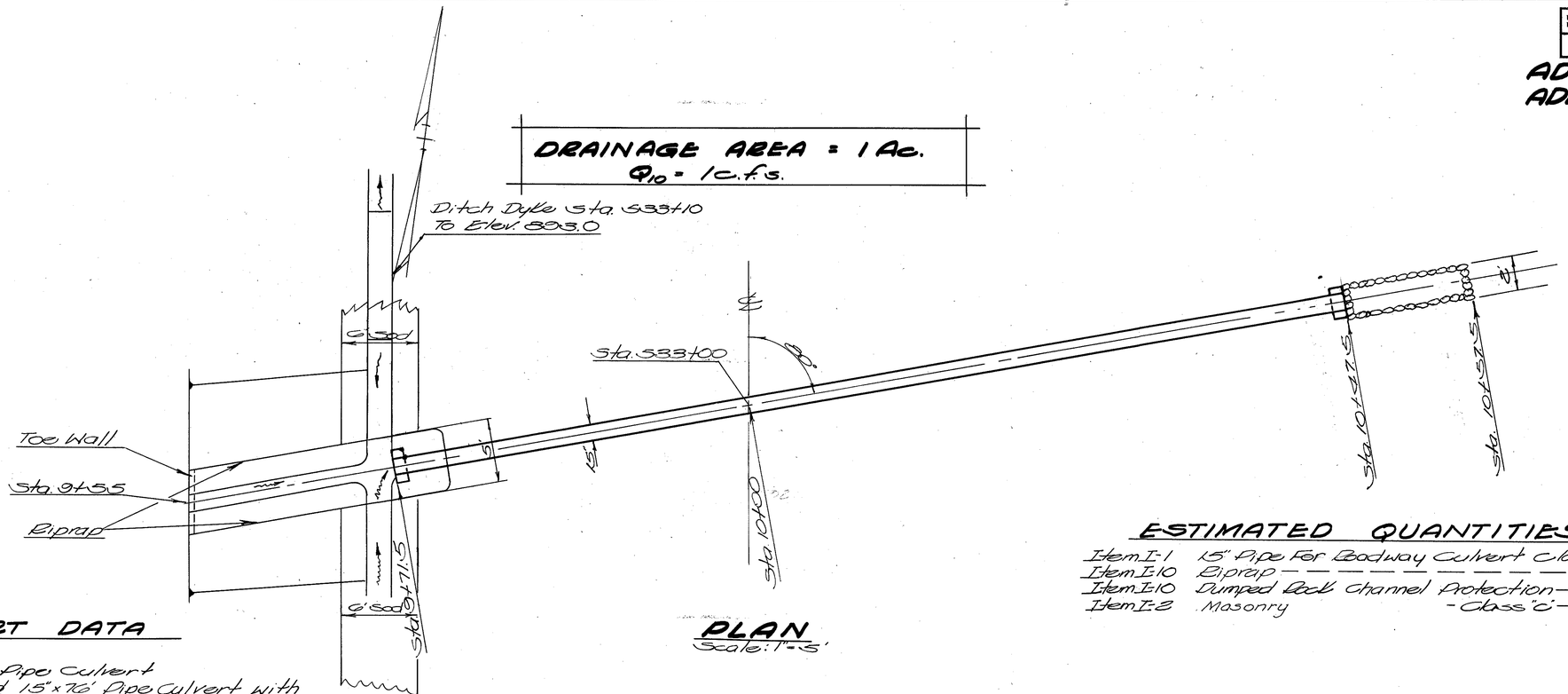
Item I-1	18" Pipe	Class A-1 - - - 100 L.F.
Item I-10	Riprap	- - -

FED. RD. DIVISION	STATE	PROJECT	.
2	OHIO		

92

ADAMS COUNTY
ADA-247-(8.95)(14.20)

DRAINAGE AREA = 1 Ac.
Q_{10} = 1 c.f.s.



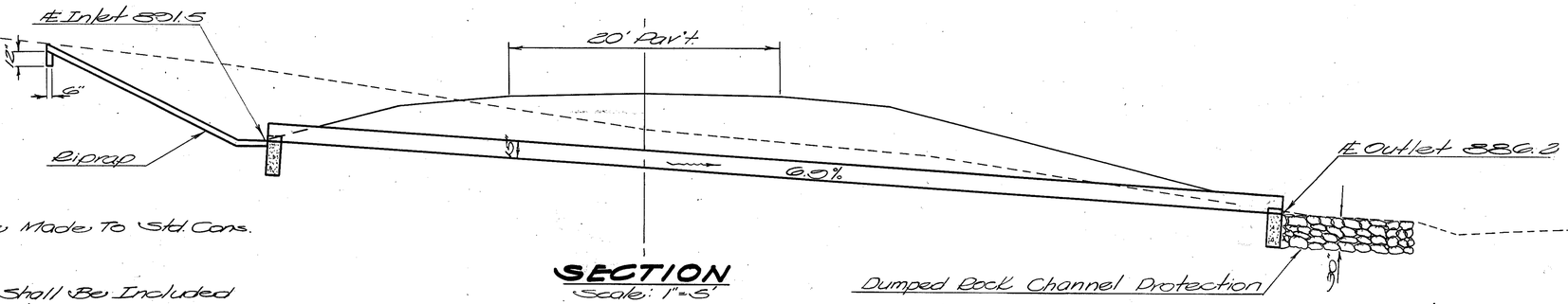
PLAN
Scale: 1"=5'

ESTIMATED QUANTITIES

Item I-1	15" Pipe For Roadway Culvert Class A1	76 L.F.
Item I-10	Riprap	12 Sq. Yds.
Item I-10	Dumped Rock Channel Protection	3 Cu. Yds.
Item I-2	Masonry - Class "C"	0.58 Cu. Yds.

CULVERT DATA

Type: Pipe
Size: 15" x 76' Pipe Culvert
Work Reqd: Build 15" x 76' Pipe Culvert with Std. HW-E End Walls. Place Riprap and Dumped Rock Channel Protection (As Per Plan).



SECTION
Scale: 1"=5'

NOTE: Reference Shall Be Made To Std. Cons. Dwg. HW-E

Excavation For Structure Shall Be Included In Unit Price Bid For Structure.

Datum Line 870.0

5

ADA-247-1009

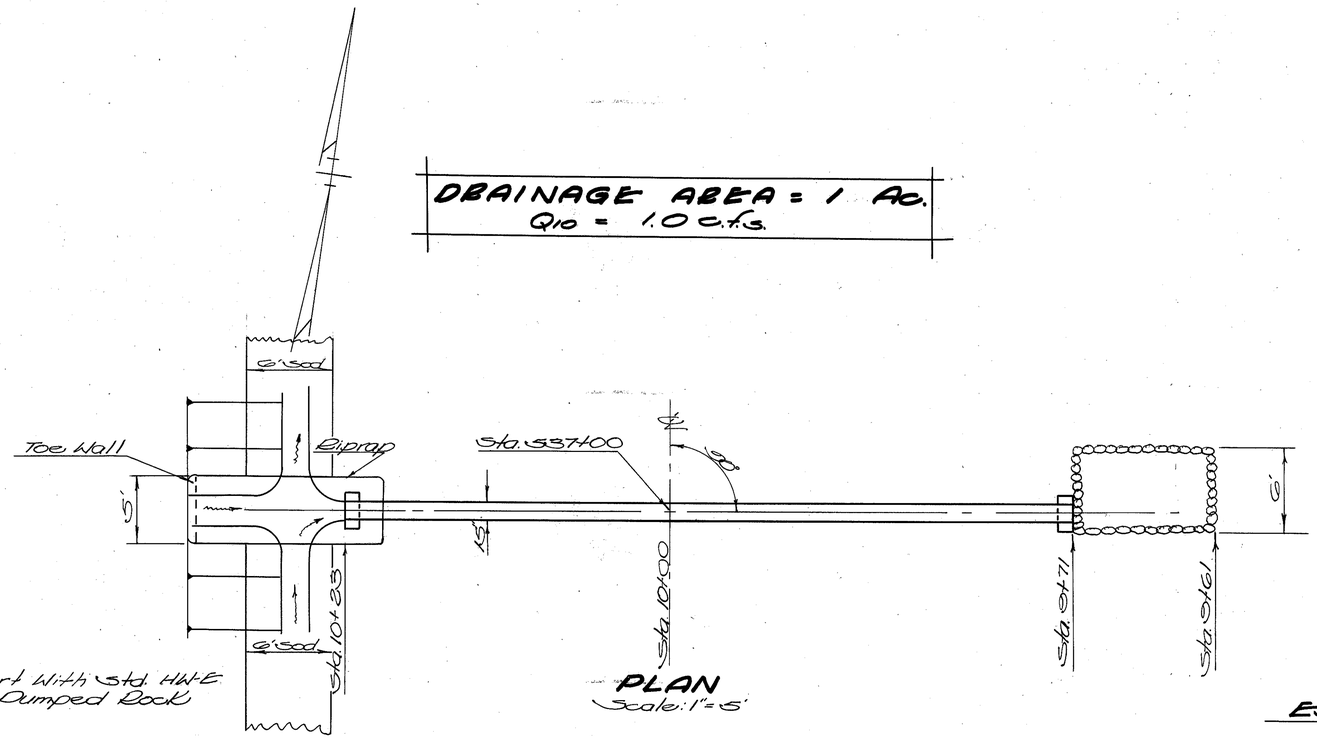
ABOR PIPE CULVERT
STA-533+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

93

ADAMS COUNTY
ADA - 247-(8.95)(14.20)

DRAINAGE AREA = 1 Ac.
Q10 = 1.0 c.f.s.



PLAN
Scale: 1" = 5'

CULVERT DATA

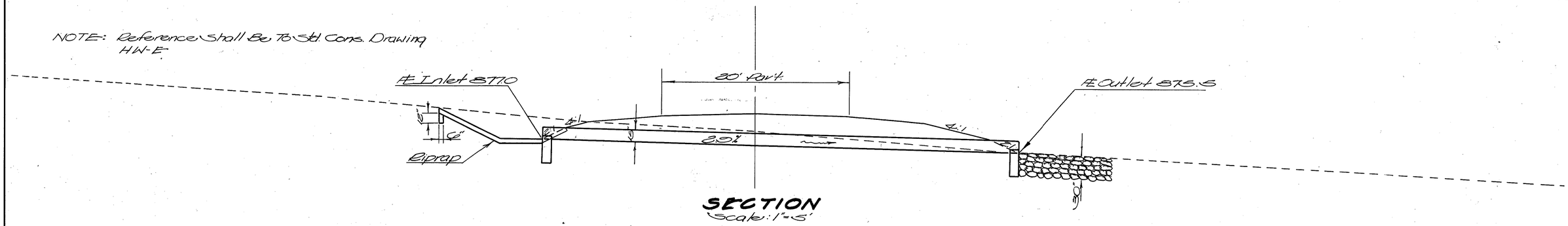
Type: Pipe
Size: 15" x 52' Pipe Culvert
Work Req'd: Build 15" x 52' Pipe Culvert With Std. HW-E End Walls. Place Riprap And Dumped Rock Channel Protection (As Per Plan)

NOTE: Excavation For Structure Shall Be Included In Unit Price Bid For Structure.

NOTE: Reference Shall Be To Std. Cons. Drawing HW-E

ESTIMATED QUANTITIES

Item I:1	15" Pipe For Roadway Culvert Class A (Sec. M-6.4(d))	52 L.F.
Item I:2	Masonry - Class "C"	.58 Cu Yds.
Item I:10	Riprap	05 Sq. Yds.
Item I:10	Dumped Rock Channel Protection	6 Cu Yds.



SECTION
Scale: 1" = 5'

6

ADA. 247-1017

PROP. PIPE CULVERT
STA - 537+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

94

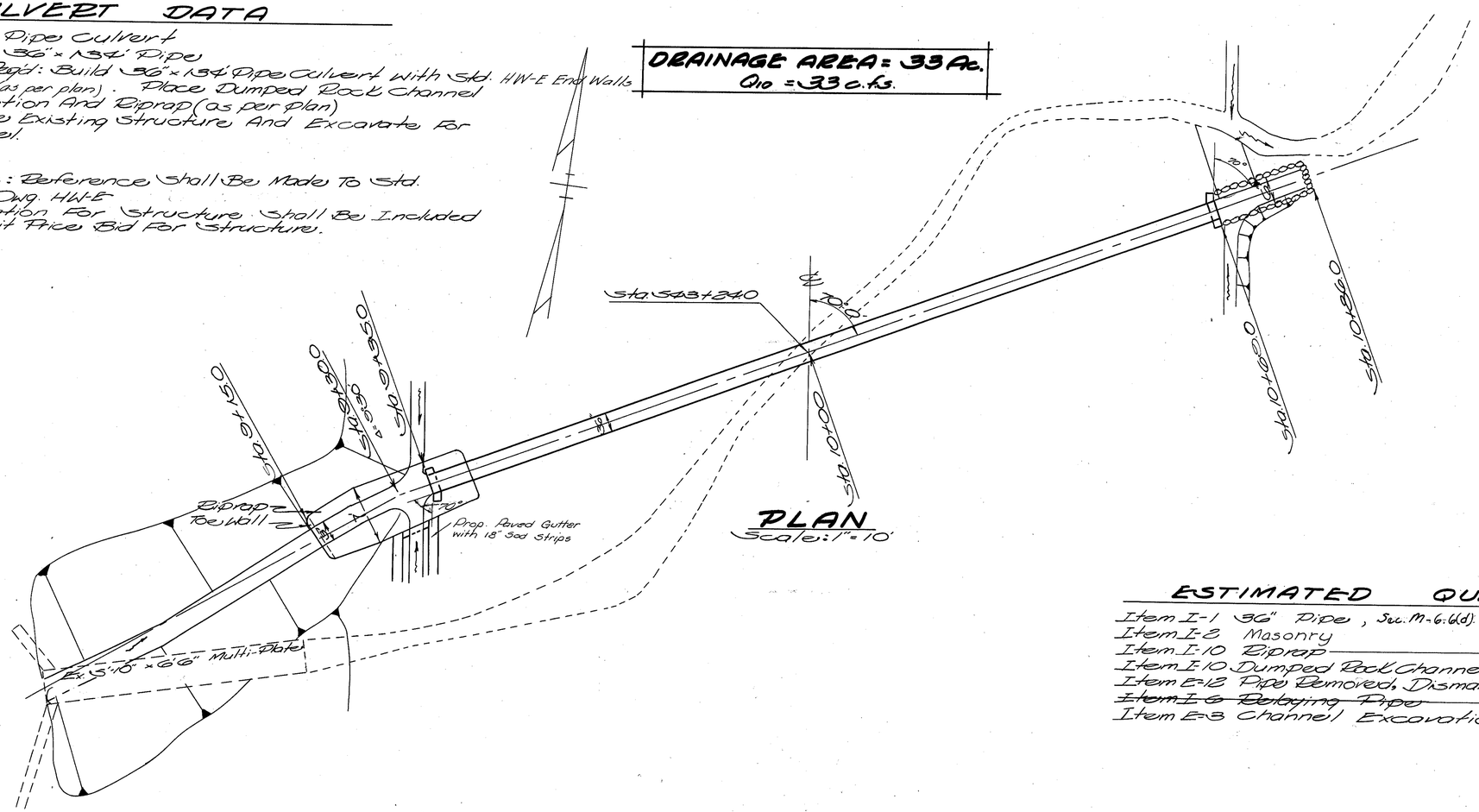
ADAMS COUNTY
ADA-247-(8.95)(14.20)

CULVERT DATA

Type: Pipe Culvert
Size: 36" x 134' Pipe
Work Req'd: Build 36" x 134' Pipe Culvert With Std. HW-E End Walls Modified (as per plan). Place Dumped Rock Channel Protection And Riprap (as per plan)
Remove Existing Structure And Excavate For Channel.

NOTES: Reference Shall Be Made To Std. Cons. Dwg. HW-E
Excavation For Structure Shall Be Included In Unit Price Bid For Structure.

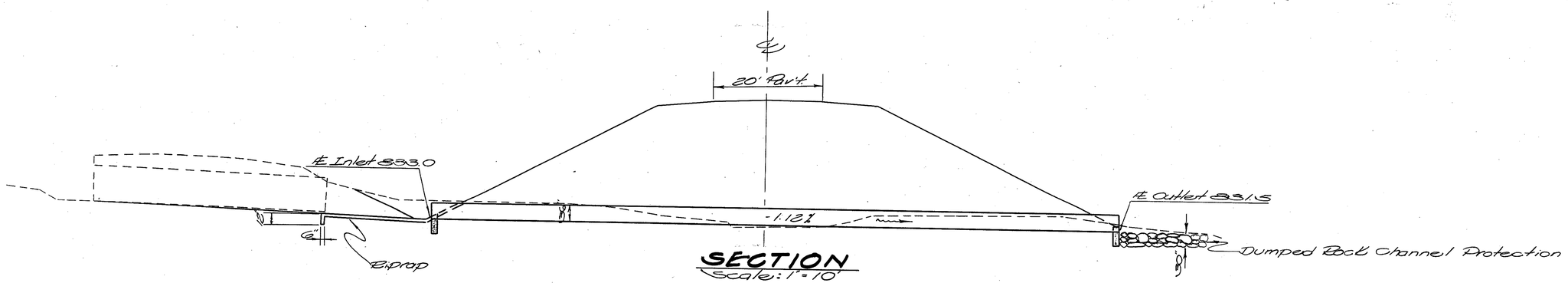
DRAINAGE AREA = 33 Ac.
Q_{10} = 33 c.f.s.



PLAN
Scale: 1" = 10'

ESTIMATED QUANTITIES

Item I-1 36" Pipe, Sec. M-6.1(d). or Sec. M-6.4(d)	- Class A-1	134 L.F.
Item I-8 Masonry	- Class "C"	1.18 Cu. Yds.
Item I-10 Riprap		28 Sq. Yds.
Item I-10 Dumped Rock Channel Protection		10 Cu. Yds.
Item E-12 Pipe Removed, Dismantled & Stored		42.5 L.F.
~~Item I-6 Relaying Pipe~~		~~43 L.F.~~
Item E-3 Channel Excavation		275 Cu. Yds.



SECTION
Scale: 1" = 10'

ADA-247-1029

7

PROP. PIPE CULVERT
STA- 543+24

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

95

ADAMS COUNTY
ADA-247-(8.95)(14.20)

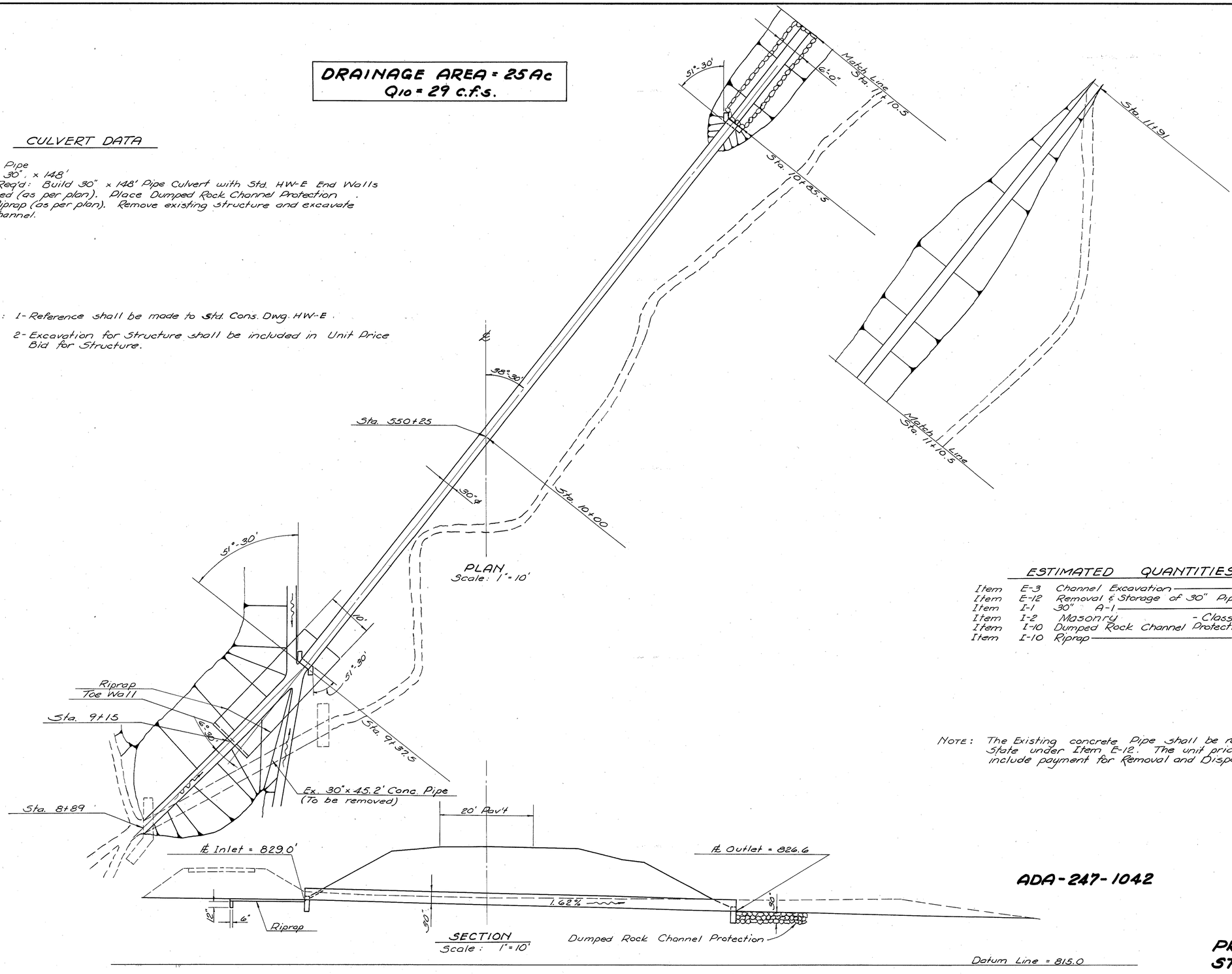
DRAINAGE AREA = 25 Ac
Q10 = 29 c.f.s.

CULVERT DATA

Type: Pipe
Size: 30" x 148'
Work Req'd: Build 30" x 148' Pipe Culvert with Std. HW-E End Walls Modified (as per plan). Place Dumped Rock Channel Protection and Riprap (as per plan). Remove existing structure and excavate for channel.

NOTES: 1- Reference shall be made to Std. Cons. Dwg. HW-E.

2- Excavation for Structure shall be included in Unit Price Bid for Structure.



ESTIMATED QUANTITIES

Item	E-3	Channel Excavation	150 Cu. Yds.
Item	E-12	Removal & Storage of 30" Pipe	45.2 Lin. Ft.
Item	I-1	30" A-1	148 Lin. Ft.
Item	I-2	Masonry - Class "C"	1.02 Cu. Yds.
Item	I-10	Dumped Rock Channel Protection	14 Cu. Yds.
Item	I-10	Riprap	24 Sq. Yds.

NOTE: The Existing concrete Pipe shall be removed and stored for the State under Item E-12. The unit price bid for this item shall also include payment for Removal and Disposal of the Existing Headwalls.

ADA-247-1042

8

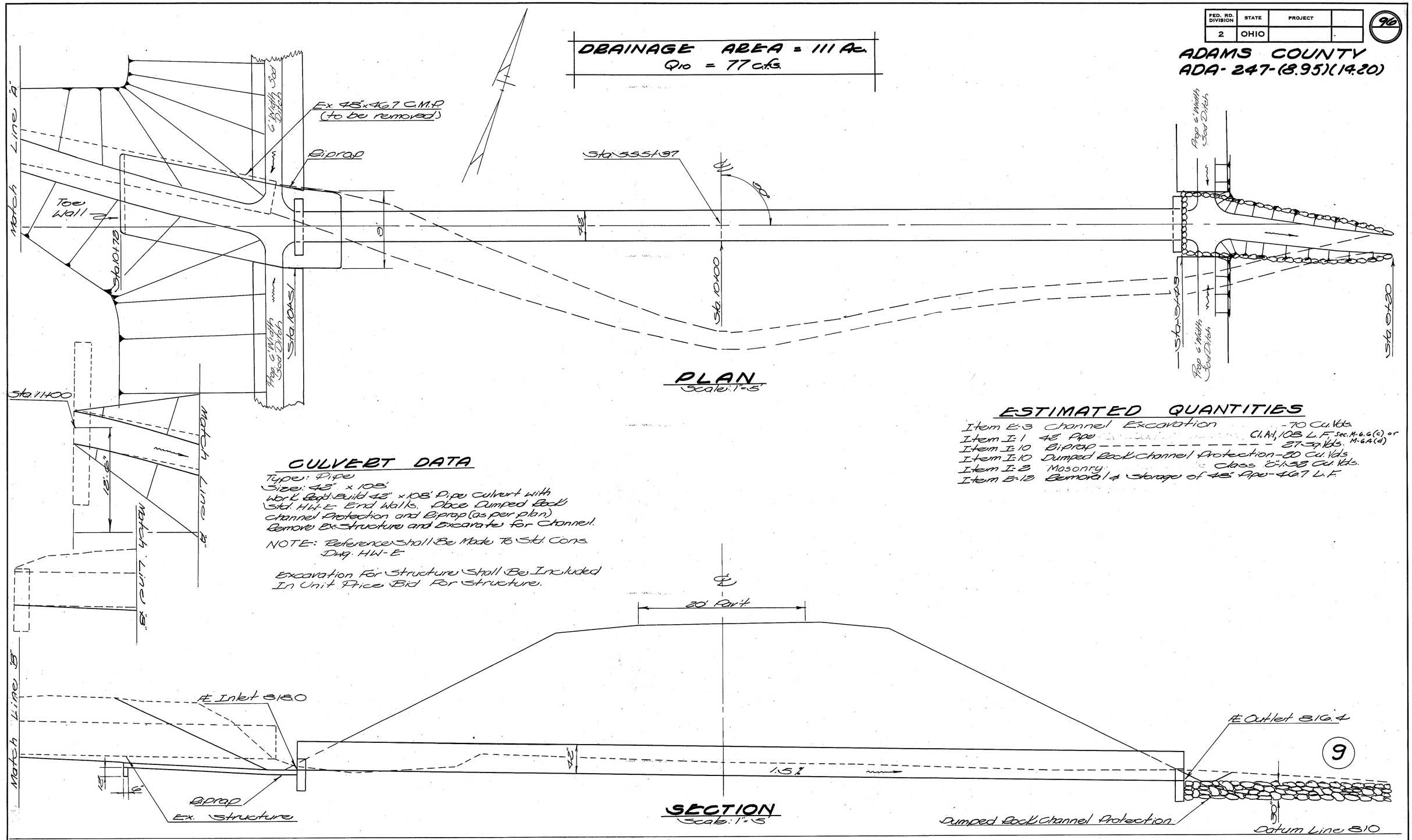
PROP PIPE CULVERT
STA. 550+25

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

96

ADAMS COUNTY
ADA-247-(8.95)(14.20)

DRAINAGE AREA = 111 Ac.
Q_{10} = 77 c.f.s.



PLAN
Scale: 1"=5'

SECTION
Scale: 1"=5'

ESTIMATED QUANTITIES

Item E-3 Channel Excavation - 70 Cu. Yds.
Item I-1 42" Pipe - Cl. A-1, 108 L.F. Sec. M-6.6(c) or M-6.4(d)
Item I-10 Riprap - 27 Sq. Yds.
Item I-10 Dumped Rock Channel Protection - 20 Cu. Yds.
Item I-2 Masonry - Class "C" - 1.52 Cu. Yds.
Item E-12 Removal & Storage of 48" Pipe - 46.7 L.F.

CULVERT DATA

Type: Pipe
Size: 42" x 108'
Work Reqd: Build 42" x 108' Pipe Culvert with Std. HW-E End Walls. Place Dumped Rock Channel Protection and Riprap (as per plan) Remove Ex. Structure and Excavate for Channel.

NOTE: Reference Shall Be Made To Std. Cons. Dwg. HW-E

Excavation For Structure Shall Be Included In Unit Price Bid For Structure.

9

ADA-247-1052

PROP. PIPE CULVERT
STA- 555 + 37

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

97

ADAMS COUNTY
ADA-247-(8.95)(14.20)

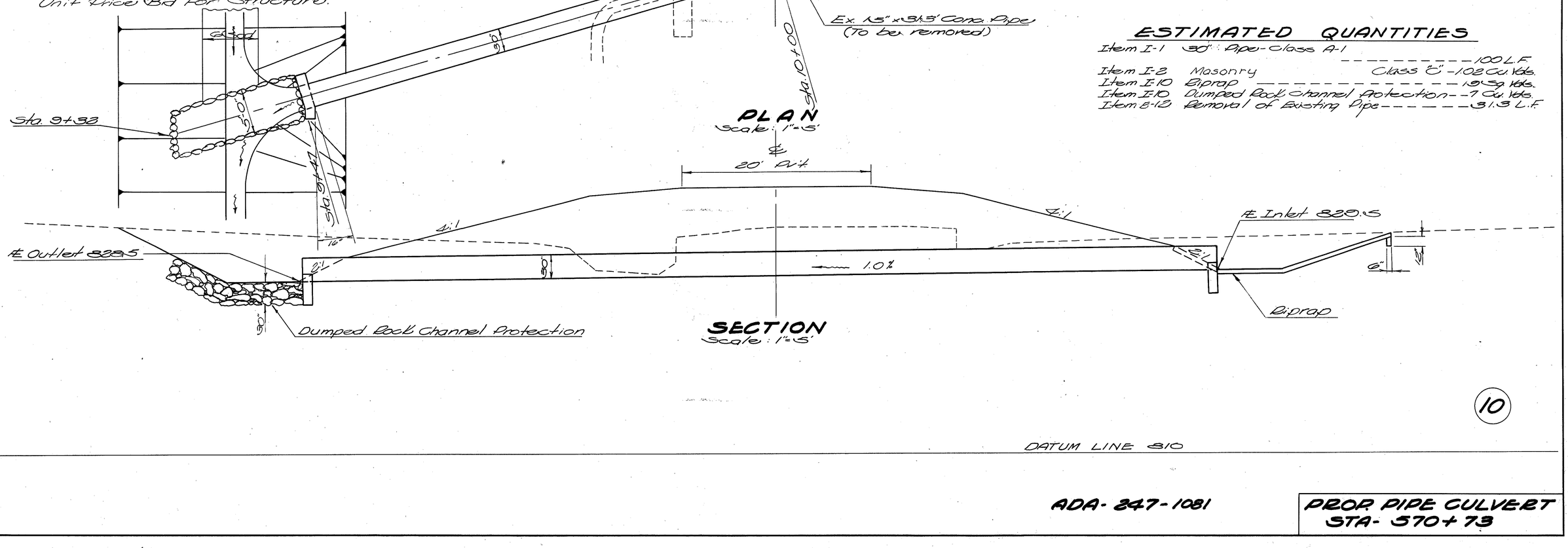
CULVERT DATA

Type: Pipe
Size: 30" x 100' Pipe
Work Req'd: Build 30" x 100' Pipe Culvert with Std. HW-E End Walls. (Modified as per plan) Dumped Rock Channel Protection and Riprap (as per plan). Remove Existing Structure.

NOTES: Reference Shall Be Made To Std. Const. Dwg. HW-E

Excavation For Structure Shall Be Included In Unit Price Bid For Structure.

DRAINAGE AREA = 25 Ac.
Q10 = 29 c.f.s.



PLAN
Scale: 1"=5'

SECTION
Scale: 1"=5'

ESTIMATED QUANTITIES

Item I-1	30" Pipe-Class A-1	100 L.F.
Item I-2	Masonry	Class "C" - 102 Cu. Yds.
Item I-10	Riprap	10 Sq. Yds.
Item I-10	Dumped Rock Channel Protection	7 Cu. Yds.
Item E-12	Removal of Existing Pipe	31.3 L.F.

10

DATUM LINE 810

ADA-247-1081

PROP. PIPE CULVERT
STA-570+73

SUMMARY OF QUANTITIES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

98

ADAMS COUNTY
ADA - 247-(8.95)(14.20)

PAVEMENT CALCULATIONS

See Sht No	Location and Description	Side	T-35 Asphaltic Concrete Surface Course. Sq. Yds 1 1/4"	T-35 Asphaltic Concrete Surface Course. Sq. Yds 2"	T-35 Asphaltic Concrete Surface Course. Sq. Yds Var.	B-35 Asphaltic Concrete Leveling Course. Sq. Yds 1 3/4"	B-35 Asphaltic Concrete Leveling Course. Cu. Yds. Var.	T-30 Bituminous Prime Coat @ 1 gal/SY. Sq. Yds.	B-19 Aggregate Base Course. Sq. Yds. 5"	B-19 Aggregate Base Course. Sq. Yds. 6"	B-19 Aggregate Base Course. Sq. Yds. 8"	B-19 Aggregate Base Course. Cu. Yds. Var.	I-22 Subbase. Sq. Yds. 6"		I-9 Stone Underdrains. Nº 2 Lin Ft.	E-8 Removal & Disposal of Existing wearing course. Sq. Yds.	I-7 Reinforced Concrete Approach Slabs. Sq. Yds.	E-1 Compacted Subgrade. Sq. Yds.		
3	Typical Section "A"																			
	9685.80 x 20 x 1/9		21,524.00			21,524.00												21,524		
	9685.80 x 21 x 1/9							22,600.20		22,600.20										
	9685.80 x 22 x 1/9												23,676.40							
5	Feather Areas																			
	749 + 50 - 750 + 00	℄	102.78					.53								35.55				
	850 + 50 - 851 + 00	℄	102.78					.52								35.55				
	Approach Slabs																			
104	775 + 63.40 - 775 + 88.40	℄								58.33							55.56	55.56		
104	777 + 36.60 - 777 + 61.60	℄								58.33							55.56	55.56		
110	831 + 21.00 - 831 + 46.00	℄								58.33							55.56	55.56		
110	832 + 62.00 - 832 + 87.00	℄								58.33							55.56	55.56		
99	Add for Drives & Approaches		1075.21	603.08		1075.21		1182.20	651.66	2384.23	232.75		1396.19					1075.21		
99	Extra Mat'l. - Underdrains											355.67	640.22							
4	I-9 Schedule	R&L													1386					
	Sub-total		22,804.77	603.08		22,599.21	1.05	23,782.40	651.66	25,217.75	232.75	355.67	25,712.81		1386	71.10	222.24	22,821.45		
	Conv. to C.Y., Gals, etc.		701.83	33.50		1,098.57		0512.96	90.51	4,202.05	51.72	355.67	4285.46							
	Total		825.33			1,099.62		0512.96		4,700.85			4285.46		1386	71.10	222.24	22,821.45		
			Use 826			1100		9513		4701			4286			Use 71	223	T-350 Est. Deduct for Rock Subgrade 15,271.45 - Use 15,272 Sq. Yds.		

SUMMARY OF QUANTITIES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

93

ADAMS COUNTY
ADA-247-(8.95)(14.20)

DRAINAGE

See Sheet No	Station to Station	Side	I-1 Class (I-3) 6" Underdrains	I-1 Class (F-1) 8" Outlet Pipe	I-5 Pipe Specials 6"		I-9 Stone Underdrains (#1)	I-1 Class I-3 Sec. M-6.8(h)(c) 6" Underdrains
			Lin. Ft.	Lin. Ft.	Tee	Ells	Lin. Ft.	Lin. Ft.
102/103	758+00 - 767+00	Lt.	900					
102/103	758+00 - 767+00	Rt.	900					
103	767+00	Rt&Lt.	34	10	1	1		
104-106	779+25 - 798+75	Lt.	1440					500 •
104	779+25	Lt.	4	10				
106	798+75	Lt.		10				
105	788+00	Rt&Lt.	24		1	1		
105/106	788+00 - 798+75	Rt.	1070					
106	798+75	Rt.		10				
107/108	803+75 - 814+50	Rt.	710	710				360 ••
107	803+75	Rt.		10				
107	807+50	Rt&Lt.	24		1	1		
107/108	807+50 - 814+50	Lt.	700					
109/110	820+50 - 830+25	Lt.	970					
110	830+25	Lt.		10				
109/110	820+50 - 830+25	Rt.	970					
110	830+25	Rt.		10				
110	833+25	Lt.		10				
109/111	833+25 - 841+00	Lt.	770					
110	833+25	Rt.		10				
109/111	833+25 - 841+00	Rt.	770					
111	843+25	Lt.		10				
111	843+25 - 850+00	Lt.	670					
111	843+25	Rt.		10				
111	843+25 - 850+00	Rt.	670					
102	751+80 Spring	Rt.	30	10			3	
102	754+00 Spring	Rt.	36	10			3	
	*For Spring Drains		200	20			6	
	Total		10,888	150	3	3	12	860

* To be placed where and as directed by the Engineer

• Sta. 783+00 to Sta. 788+00 - Left
•• Sta 803+90 to Sta. 807+50 - Right

STRUCTURES

See Sheet No	STATION	Structure No	E-3 Channel Excavation	E-12 Pipe Removed 18" & Under	I-1 Pipe Class A-1 12'	I-1 Pipe Class A-1 24"	I-1 Pipe Class A-1 30"	I-1 Pipe Class B-1 12"	I-2 Masonry Class "C"	E-12 Pipe Removed Over 18"	I-10 Dumped Rock Channel Protection	I-10 Riprap	I-8 Catch Basin Type 2-3 (Modified)
			Cu. Yds.	Lin. Ft.	Lin. Ft.	Lin. Ft.	Lin. Ft.	Lin. Ft.	Cu. Yds.	Lin. Ft.	Cu. Yds.	Sq. Yds.	Each
174	751+86.5	1		30									
174	753+45.93	2		30									
175	757+20	3	3			100	See M-6.6(a) or M-6.4(a)		0.82		17	13	
174	766+44-766+63.6	4		30									
174	771+33.90	5								32			
176	802+03	6	10		150				15.60	80	53	80	
174	806+90	7								30			
177	825+15	8	51	30		92			.41		18		1
109	833+39 Lt &	9						66			6		
178	842+00	10	10				110		1.02		9	15	
	* Drive Box			126									
	Total		74	246	150	192	110	66	17.85	142	* 103	108	1

* Carried to Erosion Control Box, See Sheet No 100 Use 17.9

DRIVES & APPROACHES

See Sheet No	Station		Side	T-35 Asphaltic Concrete Surface Course 1¼" 2" Sq. Yds.	B-35 Asphaltic Concrete Leveling Course 1¾" Sq. Yds.	T-30 Bituminous Prime Coat @ 0.4 gal/s.y. Sq. Yds.	B-19 Aggregate Base Sq. Yds. 5"	6"	8"	I-22 Subbase 6" Sq. Yds.	I-1 Class C-1 Pipe for Driveway Sec. M-6.4(c) 12" Lin. Ft.	18" Lin. Ft.	I-1 Class (B-1) Sec. M-6.6(i)(c) 36"x22" Lin. Ft.	I-1 Class (B-1) 18"x11" Sec. M-6.4(i)(c) Lin. Ft.	I-1 Class C-1 Pipe for Driveway Sec. M-6.4(c) Lin. Ft.	E-1 Compacted Subgrade Sq. Yds.	E-12 Pipe Removed 18" & Under Lin. Ft.
102	751+33.5	Fld. Dr.	Rt.					70.03				32				24
102	757+50	Fld. Dr.	Rt.					72.69								
102	757+75	Res. Dr.	Lt.		162.74		174.60									
103	767+15	Fld. Dr.	Rt.					73.34		34						
105	784+50	Res. Dr.	Lt.		70.03		74.46		232.75				30			30
105	789+50	Fld. Dr.	Lt.					149.83								
105	789+50	Fld. Dr.	Rt.					82.00								
106	795+25	Fld. Dr.	Rt.					78.01		34						
106	799+00	Fld. Dr.	Rt.					101.95		36						
107	807+61	Fld. Dr.	Lt.					74.02		34						
107	809+50	Fld. Dr.	Rt.					95.30			36					16
109	821+12	Res. Dr.	Lt.		74.70		79.13			38						16
109	821+12	Fld. Dr.	Rt.					88.65		38						16
109	825+25	Fld. Dr.	Rt.					76.68								
169	833+89	Approach	Lt.	372.10		372.10	414.54			414.54	493.42				372.10	
171	833+89	Approach	Rt.	703.11		703.11	767.66			767.66	896.77				703.11	40
111	848+24	Conn.	Rt.		196.97			152.47				36				
103	766+00	Res. Dr.	Lt.		159.21			170.94						30		
106	799+50	Fld. Dr.	Lt.						233.58							
	Total			1075.21	603.08	1075.21	1182.20	651.66	233.58	232.75	1396.19	214	72	32	30	30	1075.21	*126

* Carried to Structure Box, See Sheet No 99

EXCAVATION & EMBANKMENT

See Sheet No	Station to Station	E-1 Roadway Excavation Cu. Yds.	Roadway Embankment Cu. Yds.	Roadway Embankment +20% Cu. Yds.	E-8 Removal & Disposal of Exist Pavement Sq. Yds.
104	749+50 to 776+15	12,803	24,499		
104	776+95 to 831+75	65,426	38,483		
110	832+45 to 851+00	38,335	5,714		
102/103	757+87 to 764+50		2,334		
102	754+00 to 757+09				583
103	760+10 to 766+50				76
103/104	769+00 to 775+65				1256
104	776+65 to 780+00				633
106/107	790+00 to 800+50				1983
	Total	116,564	71,024	85,228	4531

SUMMARY OF QUANTITIES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

100

ADAMS COUNTY
ADA-247-(8.95)(14.20)

EROSION CONTROL

See Sheet No	Station to Station	Side	L-10 Sodding	I-14 Paved Gutter Type 1		I-10 Dumped Rock Channel Protection	L-9 Seeding & Protecting	L-9 Commercial Fertilizer	L-9 Agricultural Liming Material		
			Sq. Yds.	Lin. Ft.		Cu. Yds.	Sq. Yds.	Tons	Tons		
102	750+00 - 757+36	Lt.	490.6								
102	750+00 - 751+01	Rt.	67.3								
102	751+01 - 751+24.5	Rt.		23.5							
102	751+545-753+00	Rt.		145.5							
102	753+00 - 753+10	Rt.				5.5					
102	753+10 - 756+00	Rt.	290.0								
102	756+00-757+04	Rt.		104.0							
102/108	758+50 - 763+84	Lt.	489.3								
103	760+00-766+99	Rt.	466.0								
103	767+31-769+50	Rt.	146.0								
103/104	769+50-776+69	Rt.	719.0								
104/105	777+35-782+40	Rt.		505.0							
104	776+73 - 779+00	Lt.		227.0							
105/106	779+00-782+40	Lt.	226.7								
106	792+00-796+00	Lt.	266.7								
106	792+00-795+09	Rt.	206.0								
106	795+41- 798+50	Rt.	206.0								
106	798+50-798+83	Rt.		33.0							
106/107	799+17-801+10	Rt.		193.0							
107	801+10 - 801+20	Rt.				5.5					
107	803+00-804+00	Rt.		100.0							
107	804+00-804+50	Rt.	33.3								
107	800+50-801+10	Lt.	40.0								
107	802+06-804+50	Lt.	162.7								
107	807+00-807+45	Lt.	30.0			5.5					
107/108	807+77-818+50	Lt.	382.0								
107	807+00-809+33	Rt.		233.0		5.5					
107	809+67-810+00	Rt.		33.0							
108	810+00-814+00	Rt.	266.7								
109	821+30 - 824+02	Rt.	241.4								
109	825+50-830+00	Rt.	300.0								
109	821+30-825+53	Lt.	282.0								
109/110	825+50-832+38	Lt.	454.7								
110	832+67-833+45	Lt.	52.0								
103	766+17-766+27	Lt.				3.5					
110/111	834+17-841+00	Lt.	455.3								
110/111	833+97-842+10	Rt.	574.6								
111	842+17-843+50	Rt.		133.0							
111	843+50-848+07	Rt.	304.7								
111/112	848+41-850+50	Rt.	139.3								
111/112	841+86-850+50	Lt.	576.0								
110	830+00-831+47	Rt.		147.0							
110	831+95-833+50	Rt.		155.0							
99	Structure Box					103					
	Approach 833+89	R&L.					2652				
	Channel 776+35	R&L.					445				
	Channel 832+25.25	R&L.					533				
99	E-3						4531				
127	749+50-776+15	R&L.					20,260				
128	776+35-831+75	R&L.					41,428				
160	832+45-851+06	R&L.					15,627				
	Total		7,868.3	2,032.0		130.5	85,476	7.8	38.6		
		Use	7868			131					

GUARD RAIL

See Sheet No	Station to Station	Side	I-15 Guard Rail Steel Beam Type Deep
			Lin. Ft.
102	757+09	Lt.	12.5
103	766+08	Lt.	12.5
103/104	769+75 - 772+50	Lt.	275.0
103/104	769+75 - 772+50	Rt.	275.0
104	775+21 - 777+83.5	Lt.	262.5
104	775+16.5 - 777+79	Rt.	262.5
106/107	799+75 -803+75	Lt.	400.0
106/107	799+75 - 803+75	Rt.	400.0
110	830+68.88 - 832+93.88	Lt.	225.0
110	830+64.12 - 832+76.62	Rt.	212.5
106	799+44	Lt.	12.5
	Sub-total		2350.00
	Deduct for Bridges		528.40
	Total		1821.60

REMOVAL OF TREES & STUMPS

Item E-9	Lump

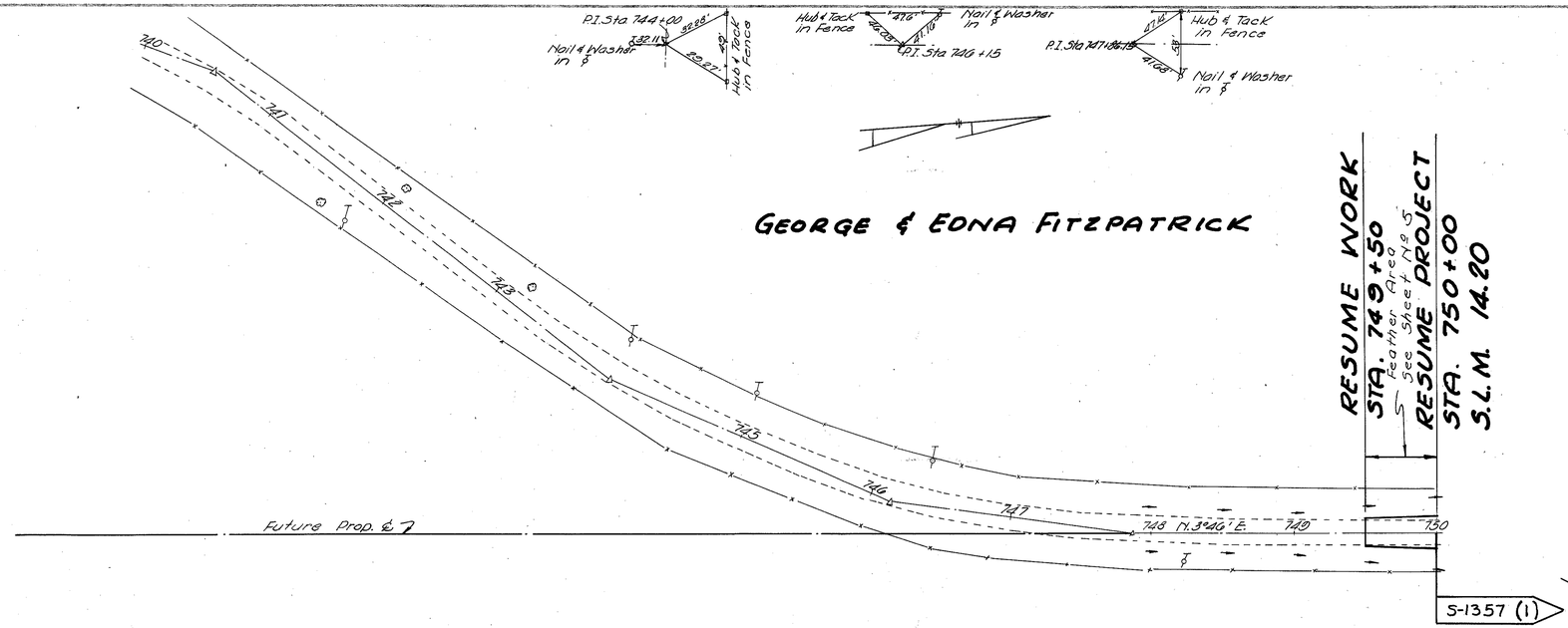
WATER

Item E-11-411M-001.

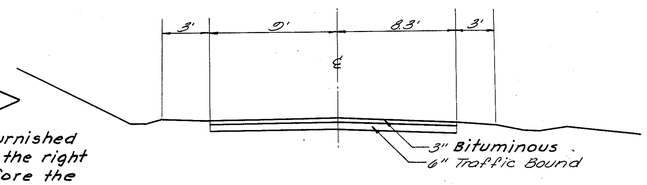
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

101

ADAMS COUNTY
ADA-247-(8.95)(14.20)



Marker will be furnished and erected on the right by the State before the acceptance of this improvement.



TYPICAL SECTION OF ADJACENT PAVEMENT AT RESUME PROJECT

P.I. Sta 740+51.23
Δ = 18°05' Rt.

BENCH MARK
Spike in backside of 28" Oak
20' Rt. & Trav. S.R. 247
Sta. 741+65 Elev 888.08

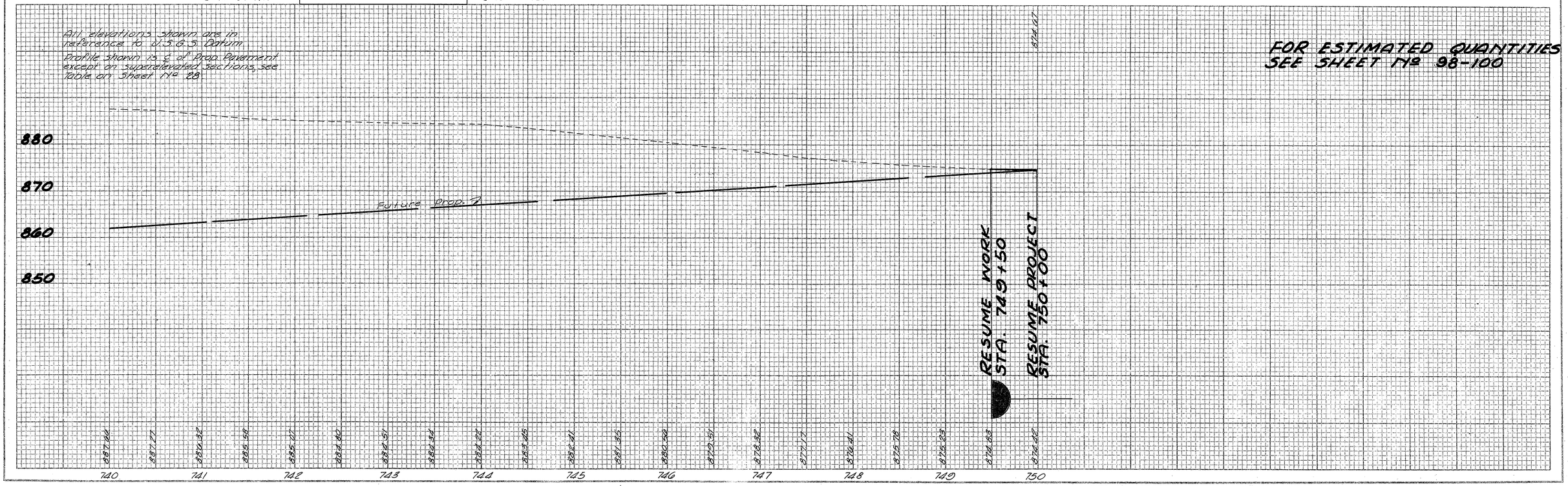
P.I. Sta 744+00
Δ = 13°53' Lt.

P.I. Sta. 746+15
Δ = 16°04' Lt.

P.I. Sta. 747+80.15
Δ = 7°54' Lt.

All elevations shown are in reference to U.S.G.S. Datum

Profile shown is ℄ of Prop. Pavement except on superelevated sections, see Table on Sheet No 28



FOR ESTIMATED QUANTITIES SEE SHEET No 98-100

STA. 740+00 TO STA. 750+00

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

102

ADAMS COUNTY
ADA-247-(8.95)(14.20)

Nail & Washer in ϕ
T.S. Sta 751+01.00
Nail & Washer in 12" Walnut

PK Nail in Pavement
P.I. Sta 753+69.15

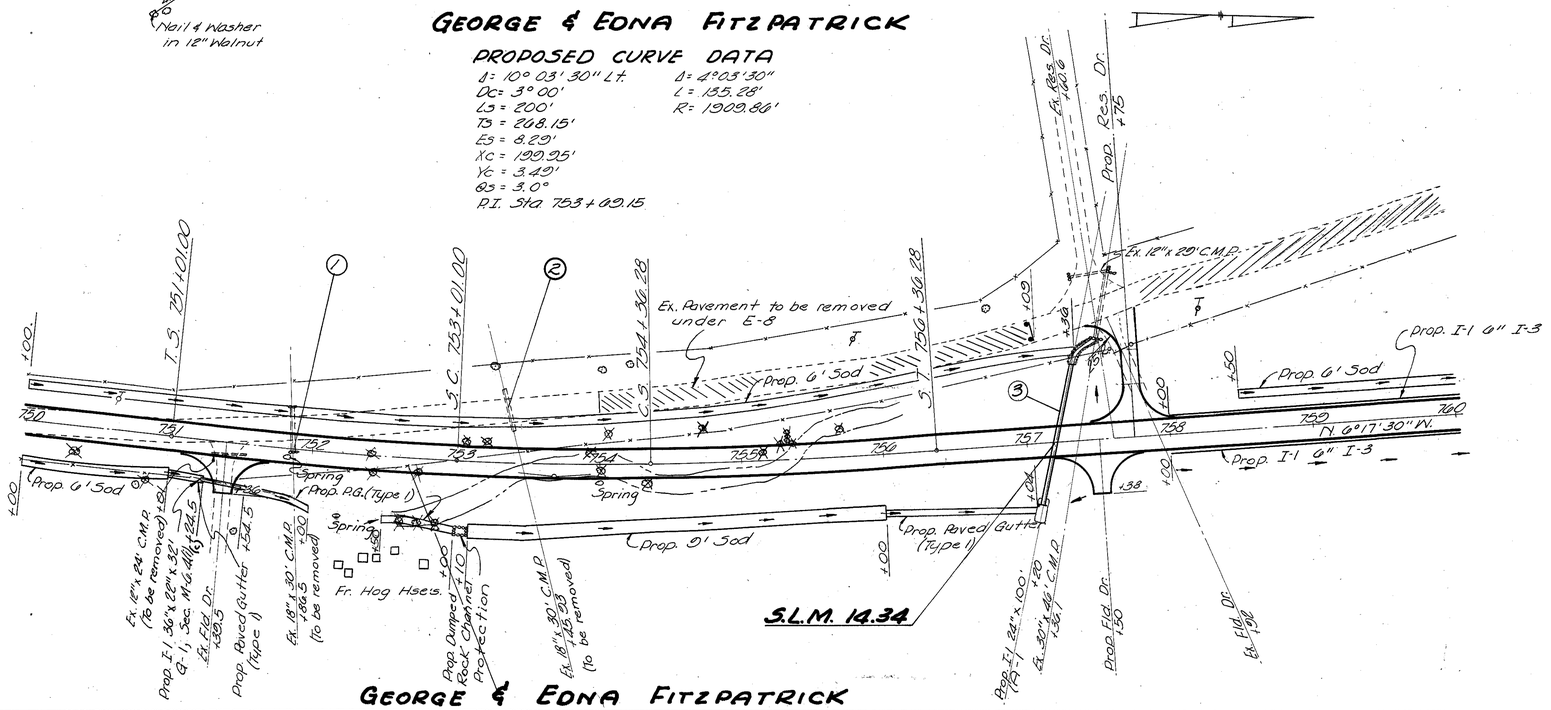
PK Nail in Pavement
S.T. Sta 756+36.28

GEORGE & EONA FITZPATRICK

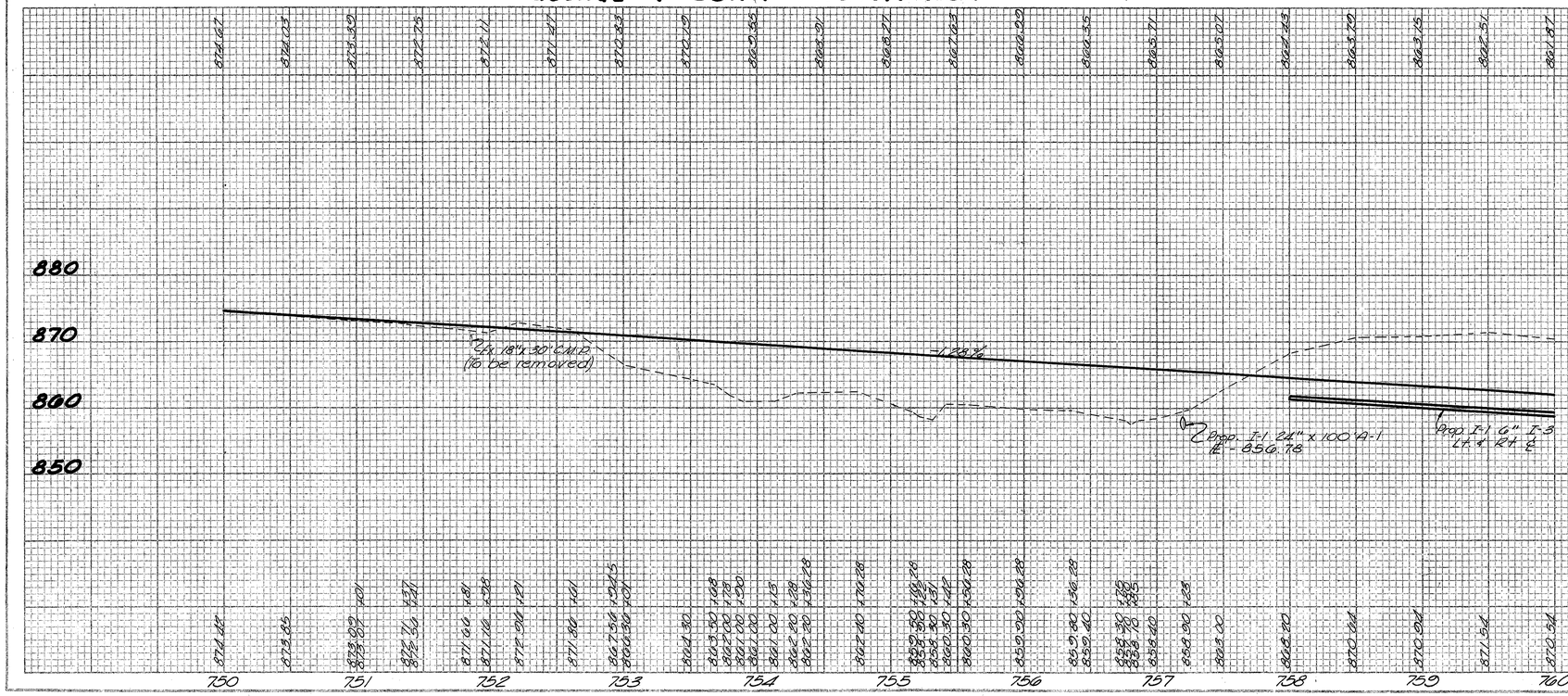
PROPOSED CURVE DATA

Δ = 10° 03' 30" Lt.
Dc = 3° 00'
Ls = 200'
Ts = 268.15'
Es = 8.29'
Xc = 199.95'
Yc = 3.49'
Θs = 3.0°
P.I. Sta 753+69.15

Δ = 4°03'30"
L = 135.28'
R = 1909.86'



GEORGE & EONA FITZPATRICK



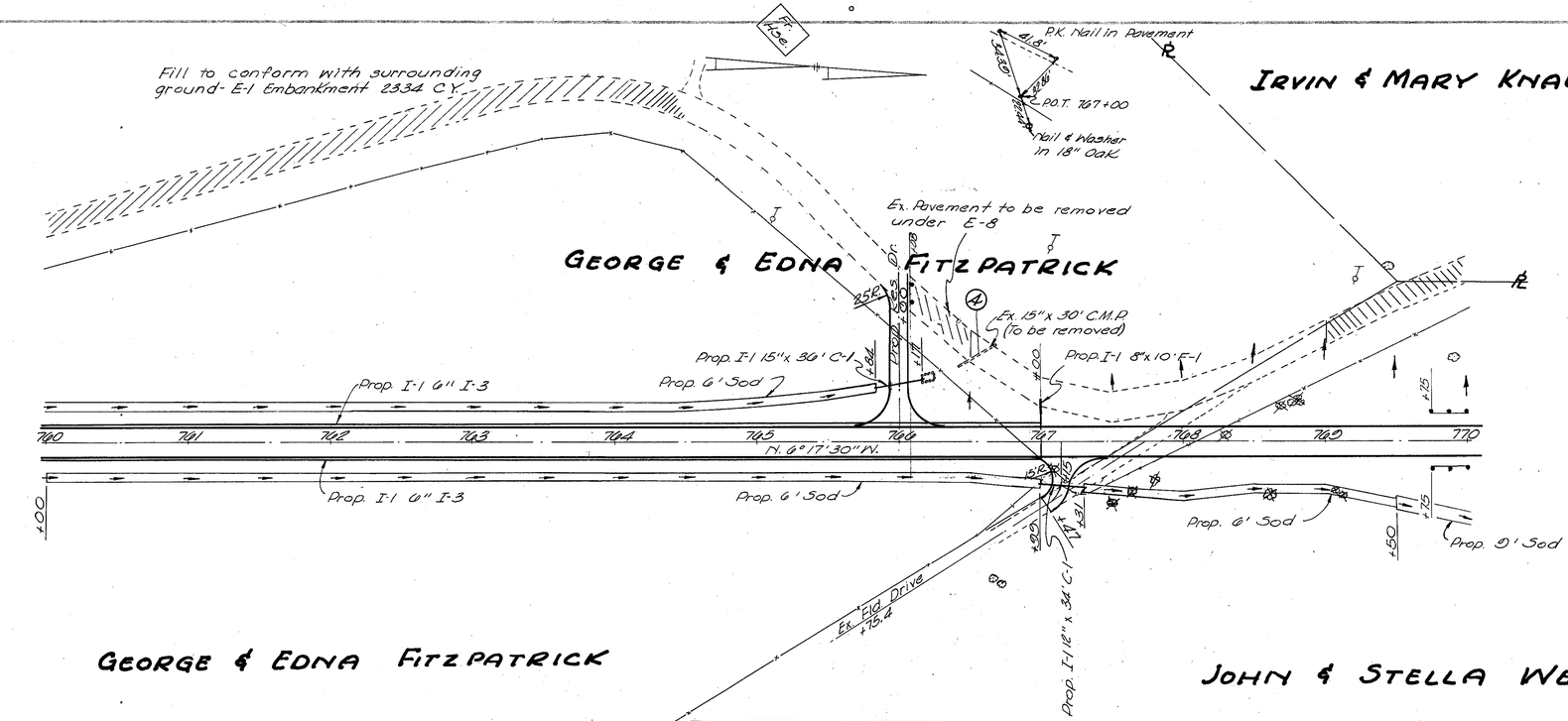
FOR ESTIMATED QUANTITIES SEE SHEET Nº 98-100

FOR DETAIL OF STRUCTURE Nº(1-3) SEE SHEET Nº 174-175

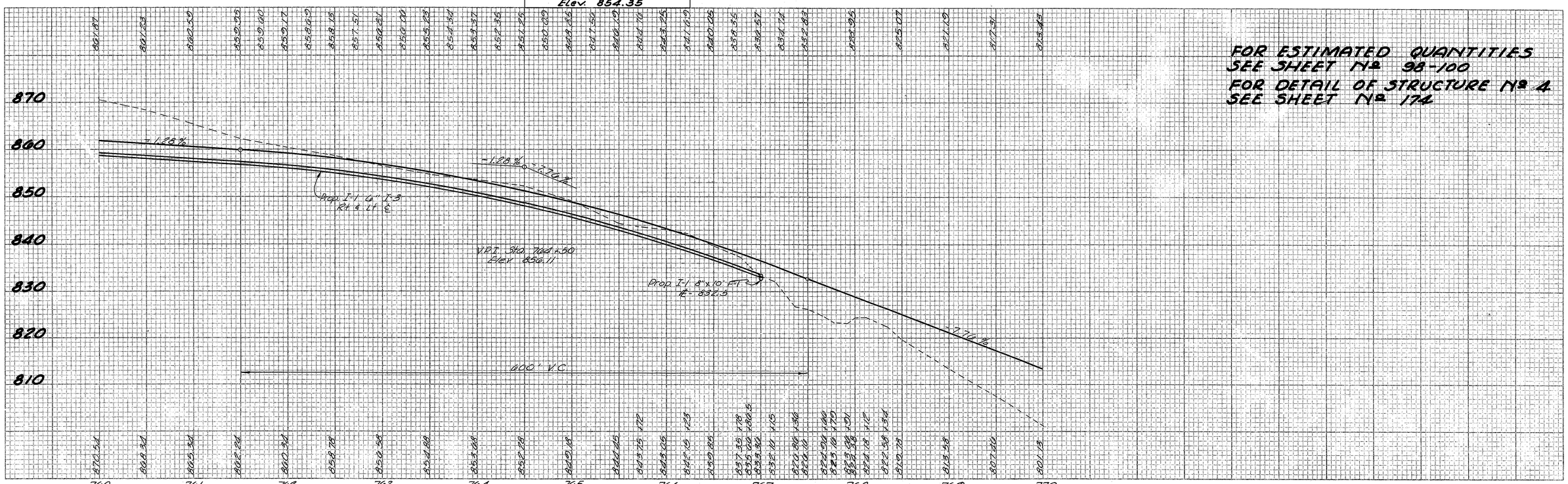
STA. 750+00 TO STA. 760+00

FED. RD. DIVISION	STATE	PROJECT		103
2	OHIO			

ADAMS COUNTY
ADA-247-(8.95)(14.20)



BENCH MARK
Spike in End Post 33.7' Rt. ℄ Trav. S.R. 247 Sta. 764+14
Elev. 854.35



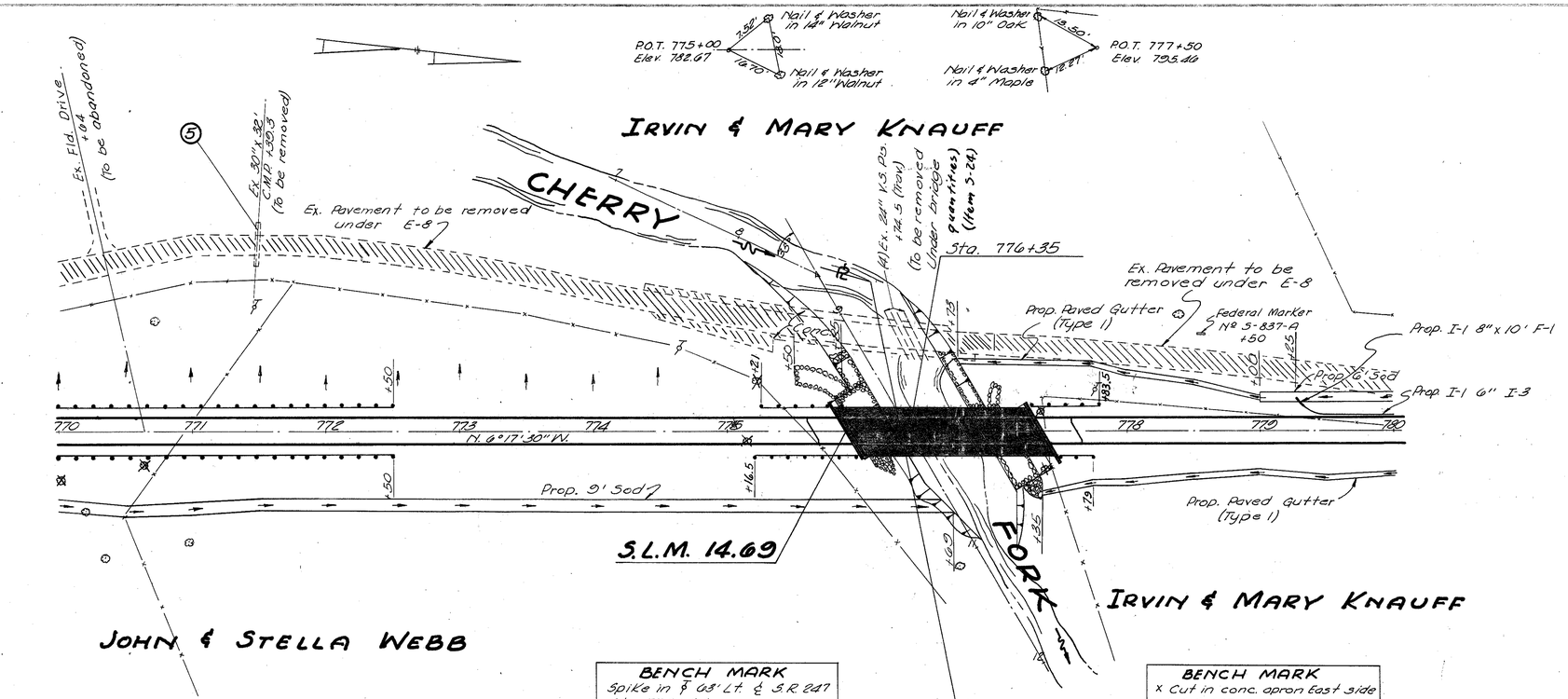
FOR ESTIMATED QUANTITIES SEE SHEET Nº 98-100
FOR DETAIL OF STRUCTURE Nº 4 SEE SHEET Nº 174

STA. 760+00 TO STA. 770+00

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

104

ADAMS COUNTY
ADA-247-(8.95)(14.20)



BENCH MARK
Spike in ϕ 68' Lt. ℄ S.R. 247
Sta. 774+64
Elev. 784.46

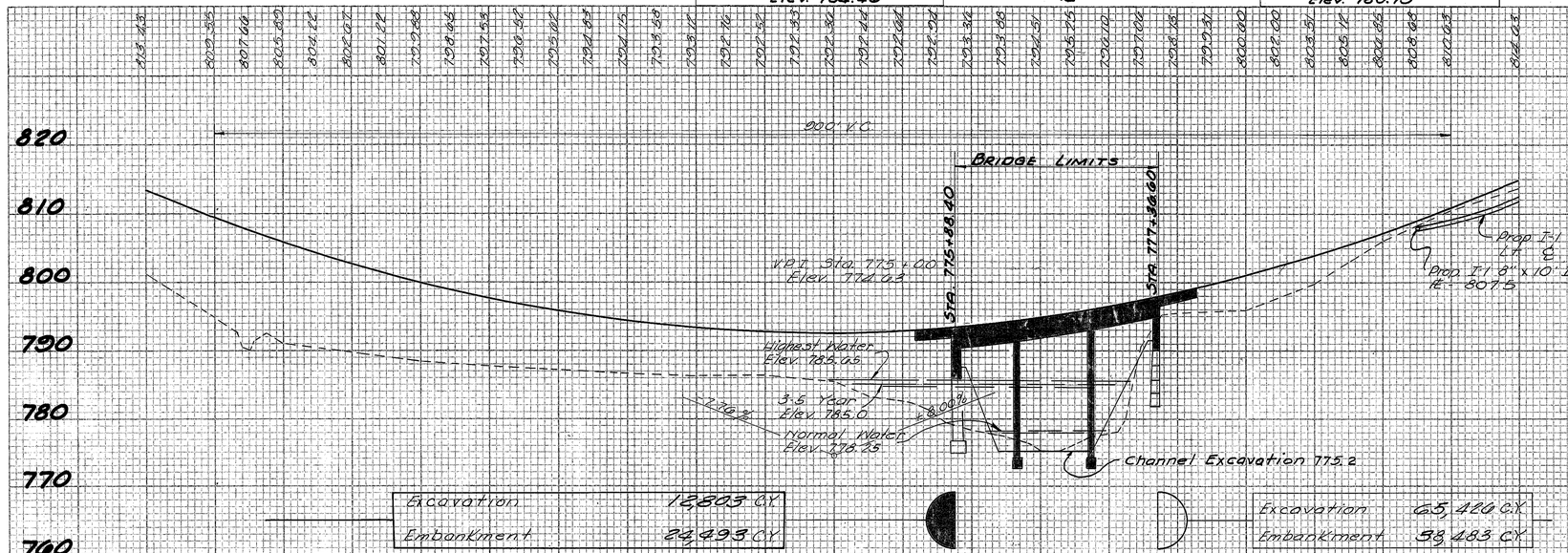
BENCH MARK
X Cut in conc. apron East side of S.R. 247 @ ADA-247-1471
Elev. 780.79

EXISTING BRIDGE DATA

Bridge Nº	ADA-247-1471
Type	C.I.P.
Span	4-24"x40'
Roadway	18'
Skew	30° R.F.

PROPOSED STRUCTURE

TYPE: Continous steel beams with reinforced conc. deck & reinf. conc. substructure.
SPAN: 44'-55'-44' ℄ brgs.
ROADWAY: 36'-0" f/f guard rails
LOAD FREQUENCY: CF = 130 (57)
SKEW: 30° R.F.
WEARING SURFACE: 3½" Monolithic conc.
APPROACH SLAB: AS-1-54 (25' Long)
ALIGNMENT: Tangent



Excavation	12803 C.Y.
Embankment	24493 C.Y.

Excavation	65,426 C.Y.
Embankment	38,483 C.Y.

FOR ESTIMATED QUANTITIES SEE SHEET Nº 98-100
FOR DETAIL OF STRUCTURE Nº 5 SEE SHEET Nº 174

STA. 770+00 TO STA. 780+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

105

ADAMS COUNTY
ADA-247-(8.95)(14.20)

PK-Nail-in Pavement
44.0
T.S. Sta. 780+76.92

Hub & Tack in Fence
35.5'
45.07
41.5'
P.I. Sta. 784+12.67

Hub & Tack in Fence
36.6
32.25
S.T. Sta. 787+43.90

PROPOSED CURVE DATA

Δ = 18° 40' 45" Lt.	D = 10° 40' 45"
Dc = 4° 00'	L = 266.98'
Ls = 200'	R = 1432.40'
Ts = 135.75'	
Es = 20.52'	
Xc = 199.90'	
Yc = 4.65'	
Θs = 4.0°	
P.I. Sta. 784+12.67	

IRVIN & MARY KNAUFF

Ex. Fld. Dr. +38 (To be Abnd.)

Prop. Fld. Drive +50

T.S. 780+76.92

Ex. Fld. Dr. +30.6

50' R

Ex. 18"x 30' C.M.P. (To be removed)

Prop. Res. Dr. +50

Prop. 1-1 18"x 11"x 30' (G-1 Sec. M.6.40)(c)

2+11

+40

S.C. 782+76.92

C.S. 785+43.90

S.T. 787+43.90

Prop. 6' Sod

Prop. I-1 6" I-3

N 24° 58' 15" W.

+95

+45

+00

+36

T=135

780 781 782 783 784 785 786 787 788 789 790

Prop. Paved Gutter (Type 1)

+40

IRVIN & MARY KNAUFF

Ex. Fld. Dr. +27 (To be Abnd.)

Ex. Fld. Dr. +38 (To be abnd.)

Prop. Fld. Drive +50

BENCH MARK
Spike in Ø 96' Lt. Prop. ℄ S.R. 247 Sta. 788+87.7
Elev. 872.33

FOR ESTIMATED QUANTITIES SEE SHEET Nº 98-100

870
860
850
840
830
820
810
800

℄ Lt. ℄

Prop. I-1 6" I-3

℄ Rt. ℄

+8.00%

1400' V.C.

V.P.I. Sta. 790+00
Elev. 869.63

780 781 782 783 784 785 786 787 788 789 790

STA. 780+00 TO STA. 790+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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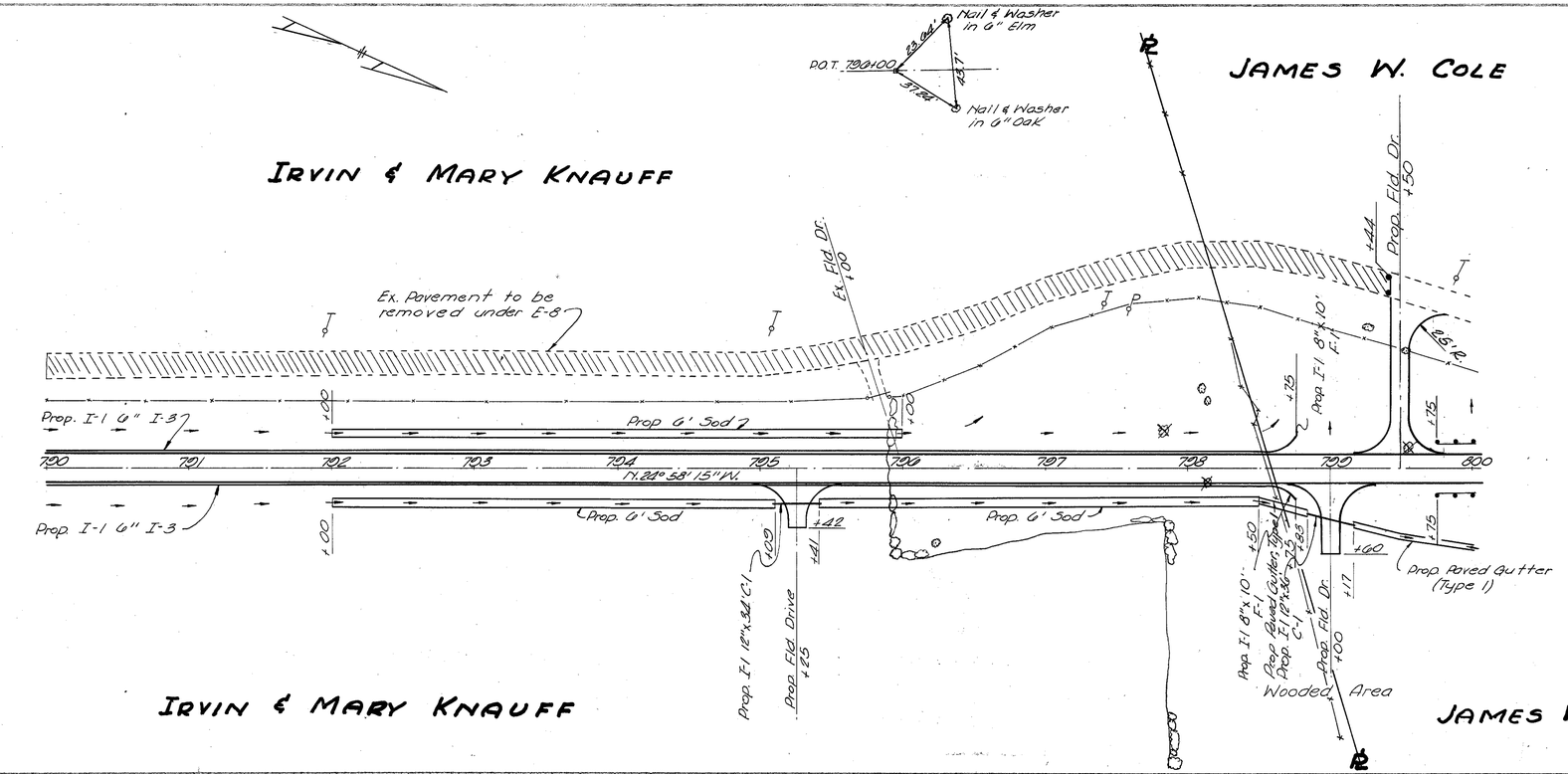
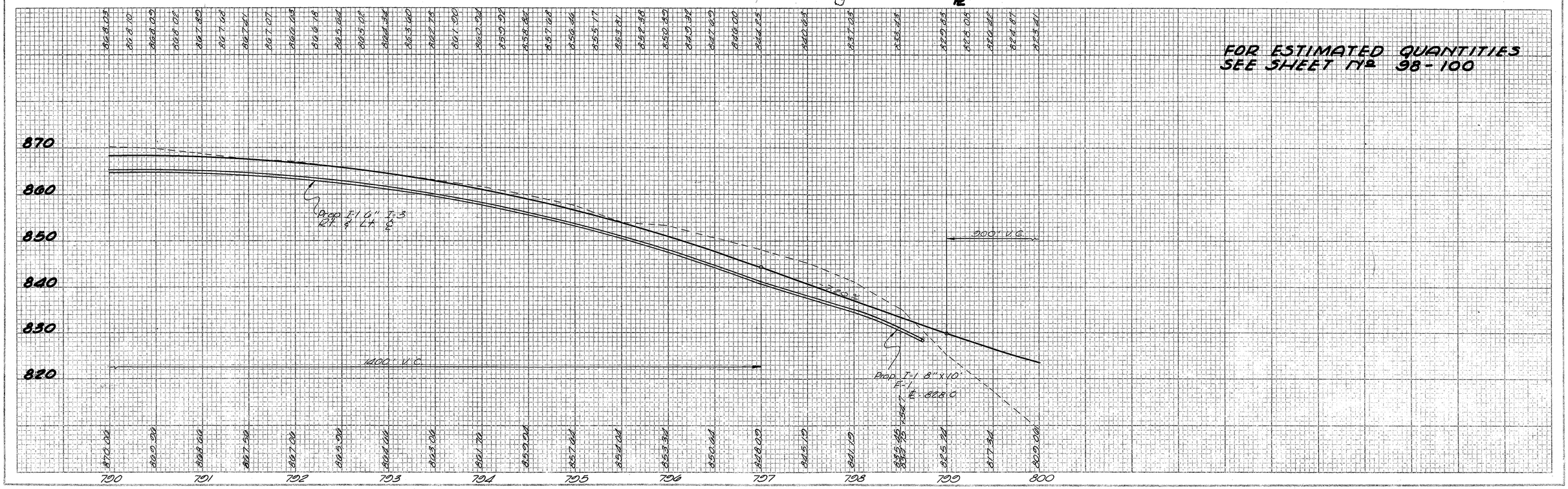
ADAMS COUNTY
ADA-247-(8.95)(14.20)





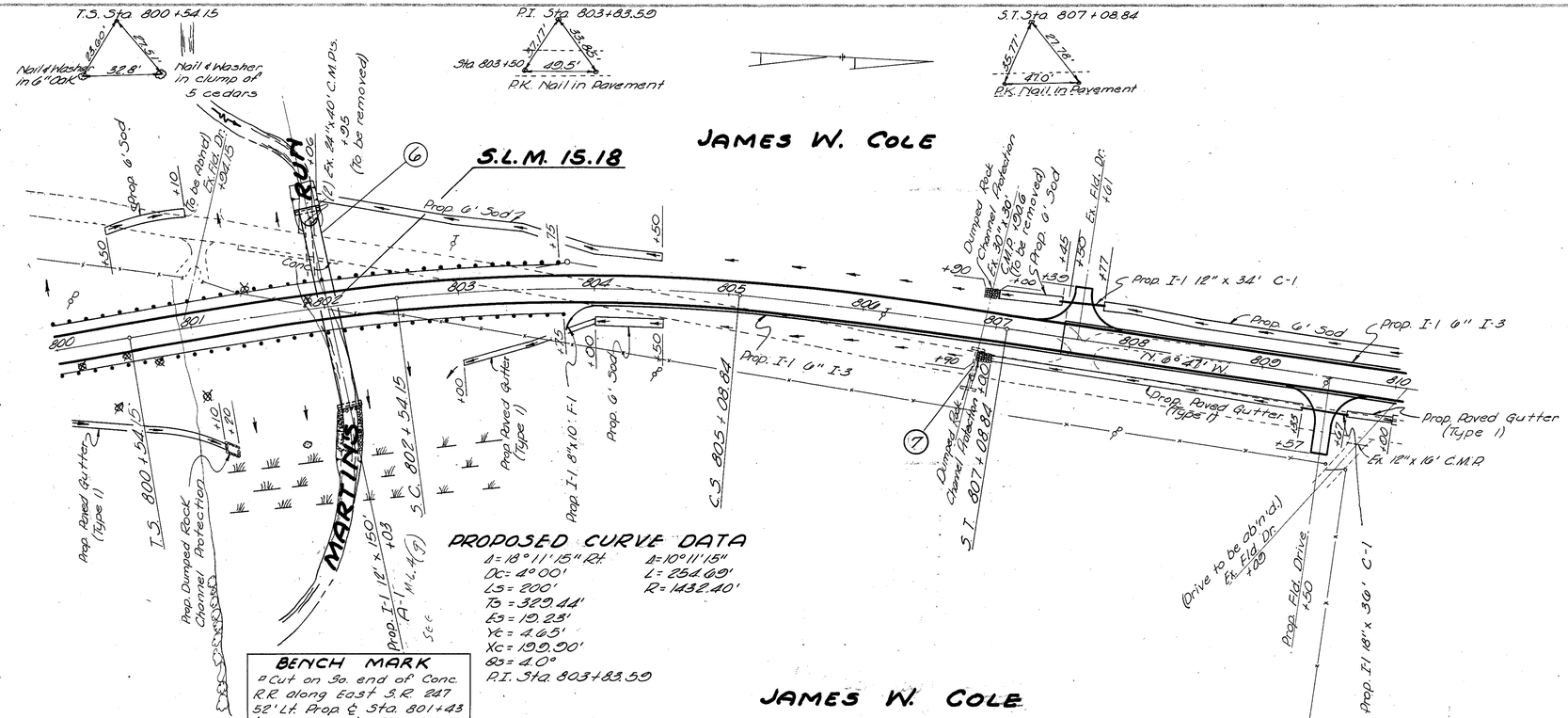
FOR ESTIMATED QUANTITIES SEE SHEET Nº 98-100

STA. 790+00 TO STA. 800+00

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

107

ADAMS COUNTY
ADA-247-(8.95)(14.20)



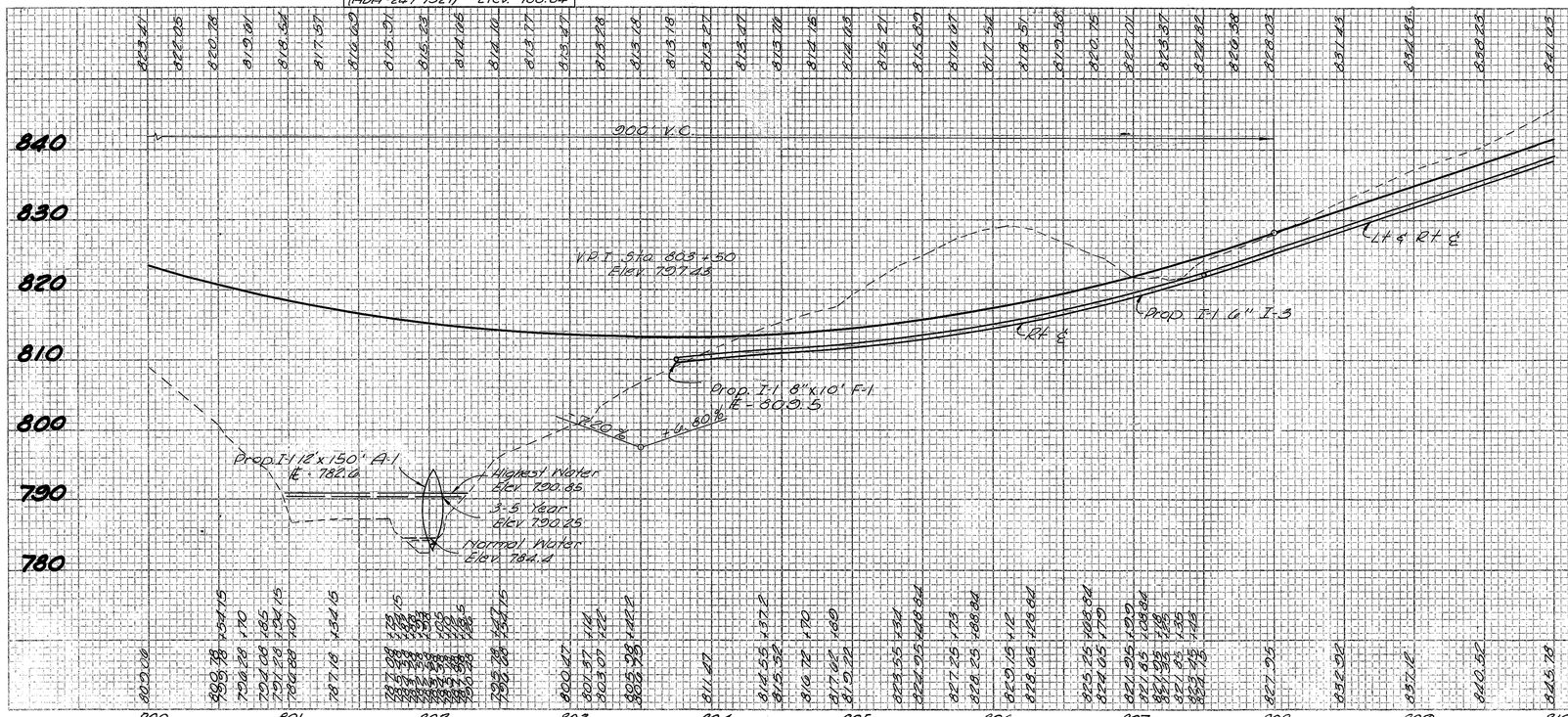
PROPOSED CURVE DATA

Δ = 18° 11' 15" Rt.
Dc = 4° 00'
Ls = 200'
Ts = 329.44'
Es = 19.28'
Ys = 4.65'
Xc = 199.90'
θs = 4.0°
P.I. Sta. 803+83.59

Δ = 10° 11' 15"
L = 254.69'
R = 1432.40'

BENCH MARK

"Cut on 3a. end of Conc. R.R. along East S.R. 247 52' Lt. Prop. ℄ Sta. 801+43 (ADA-247-1521) Elev. 788.84



FOR ESTIMATED QUANTITIES SEE SHEET Nº 98-100

FOR DETAIL OF STRUCTURE Nº 6 SEE SHEET Nº 176

FOR DETAIL OF STRUCTURE Nº 7 SEE SHEET Nº 174

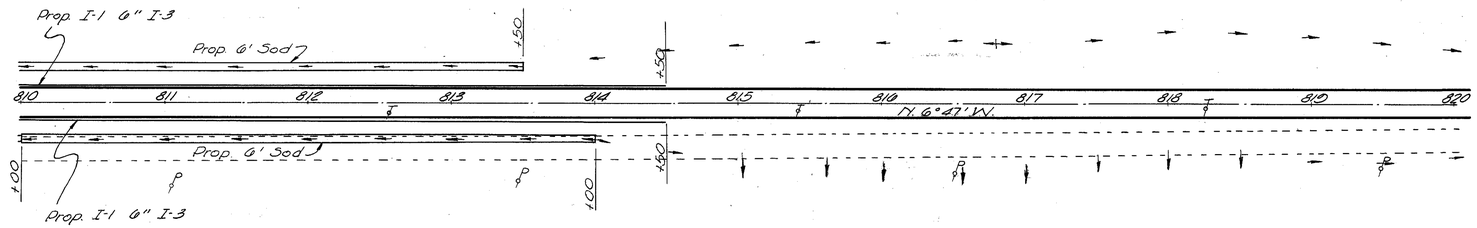
STA. 800+00 TO STA. 810+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

108

ADAMS COUNTY
ADA - 247-(8.95)(14.20)

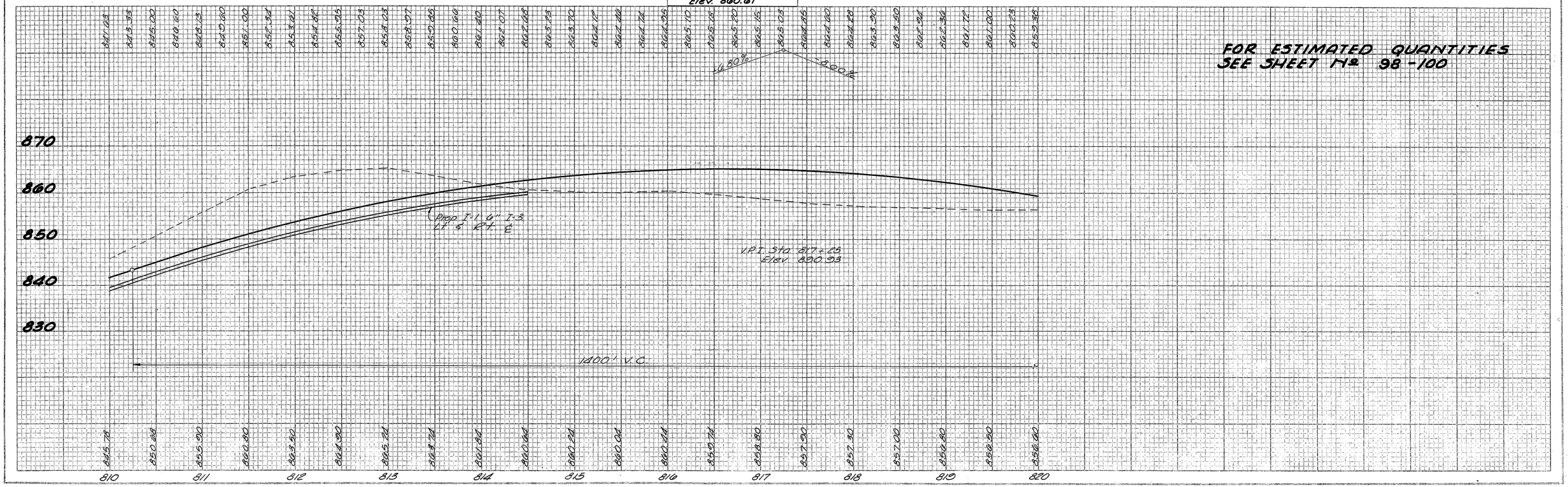
JAMES W. COLE



JAMES W. COLE

JAMES W. COLE

BENCH MARK
Spike in 8" No 38, 40.5' Rt. Prop. ℄ Sta. 810+50
Elev. 860.61



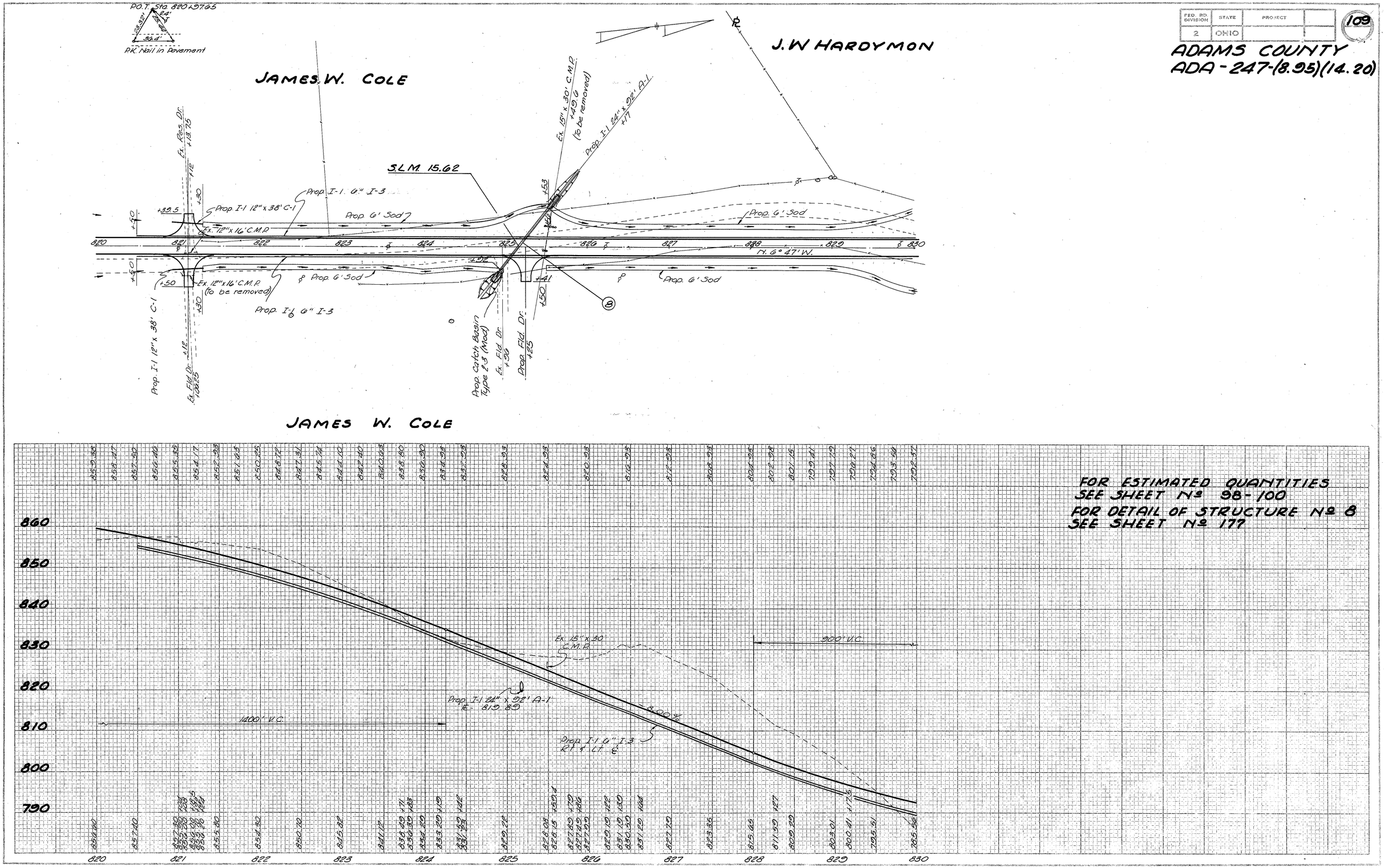
FOR ESTIMATED QUANTITIES
SEE SHEET No 98 - 100

STA. 810+00 TO STA. 820+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

109

ADAMS COUNTY
ADA-247-(8.95)(14.20)

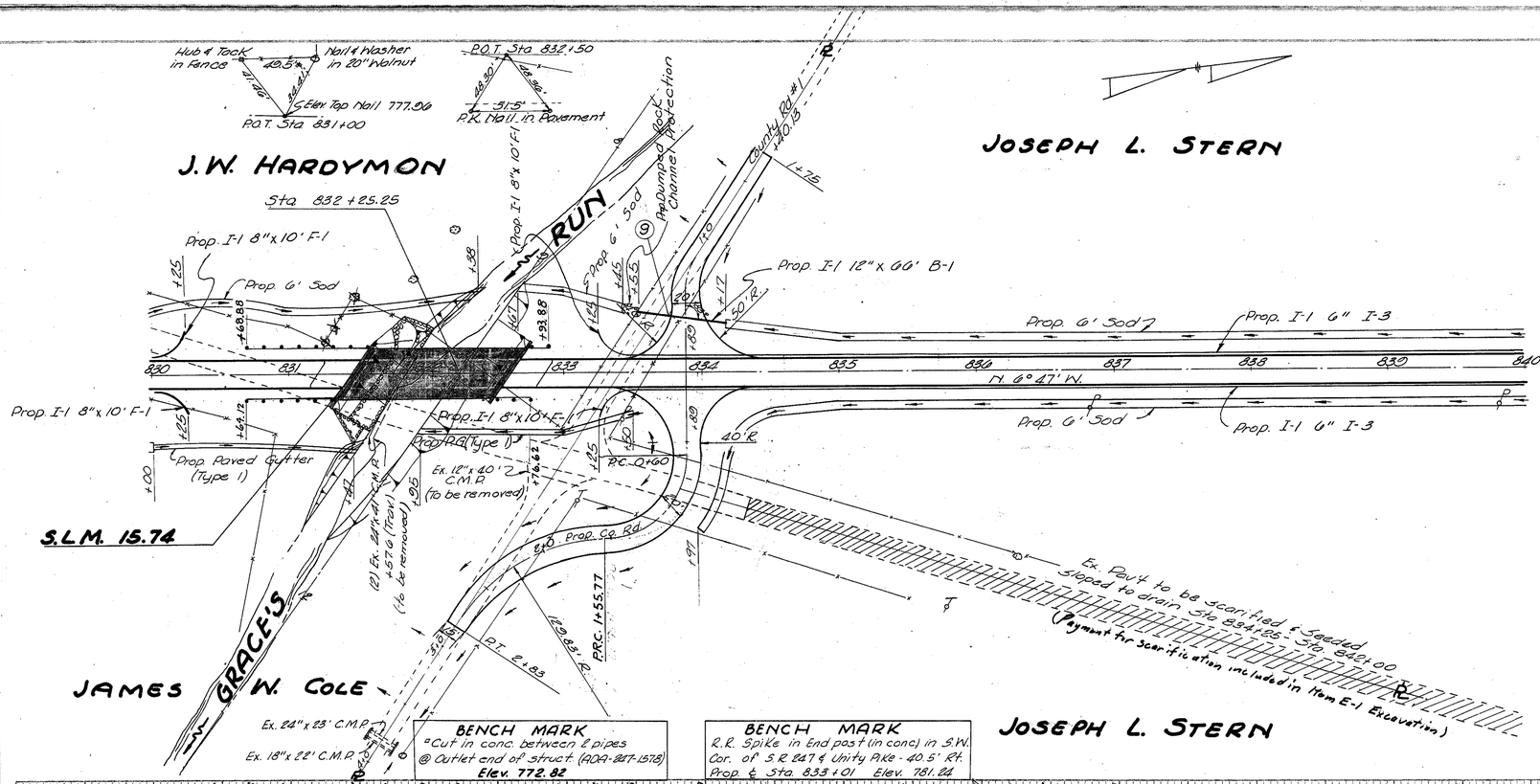


STA. 820+00 TO STA. 830+00

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

110

ADAMS COUNTY
ADA-247-(8.95)(14.20)

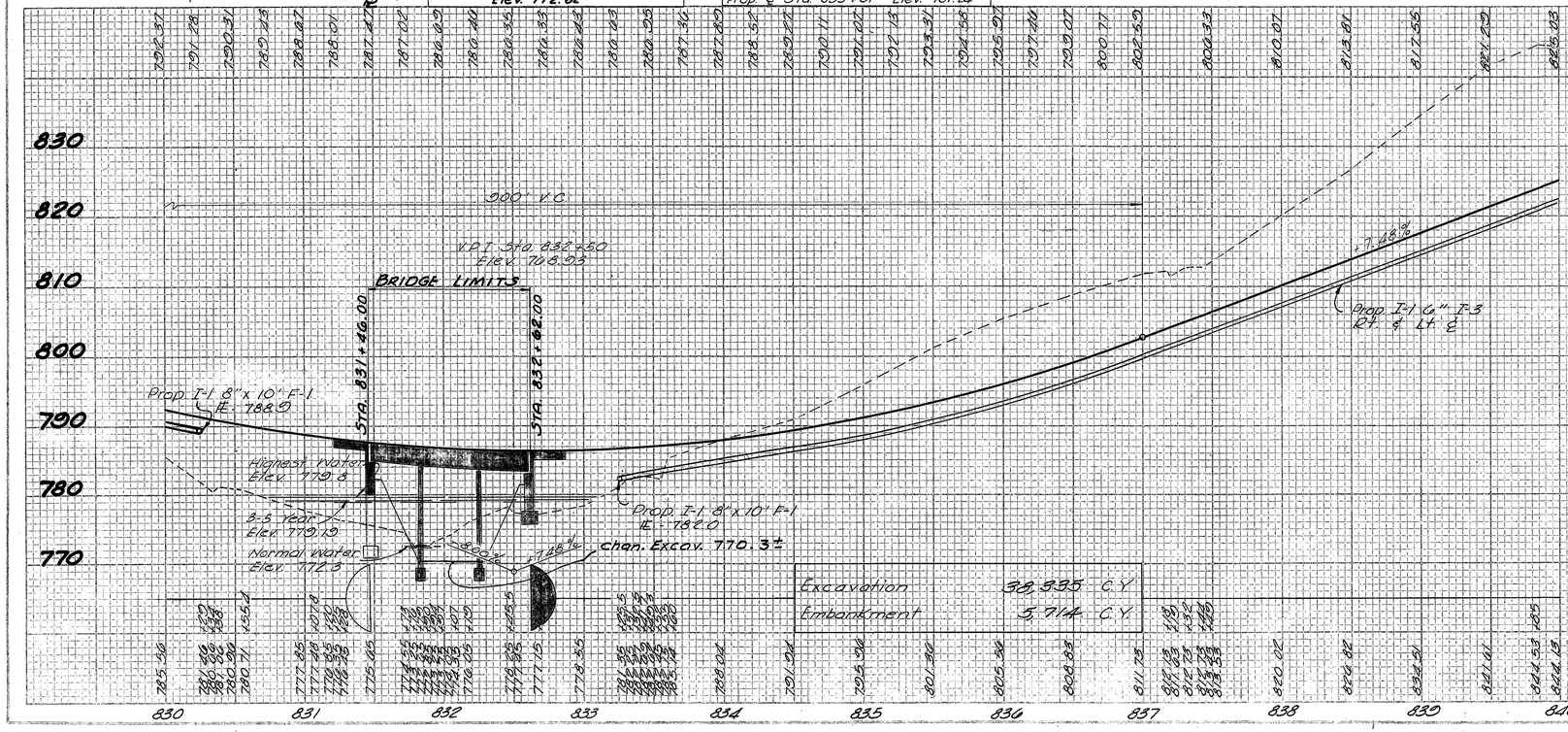


EXISTING BRIDGE DATA

Bridge Nº	ADA-247-1578
Type	C.I.P.
Span	2-24"x 40'
Roadway	17'
Skew	16° L.F.

PROPOSED STRUCTURE

TYPE: Continous steel beam with reinforced conc. deck & reinf. conc. substructure
SPAN: 34'-42.5'-34' ℄ brgs.
ROADWAY: 36'-0" f/f guard rails
LOAD FREQUENCY: CF = 130 (57)
SKEW: 35° L.F.
WEARING SURFACE: 3/4" monolithic conc.
APPROACH SLABS: AS-1-54 (25' long)
ALIGNMENT: Tangent



FOR ESTIMATED QUANTITIES SEE SHEET Nº 98-100

FOR DETAIL OF PROP. CONNECTION SEE SHEET Nº 169-173

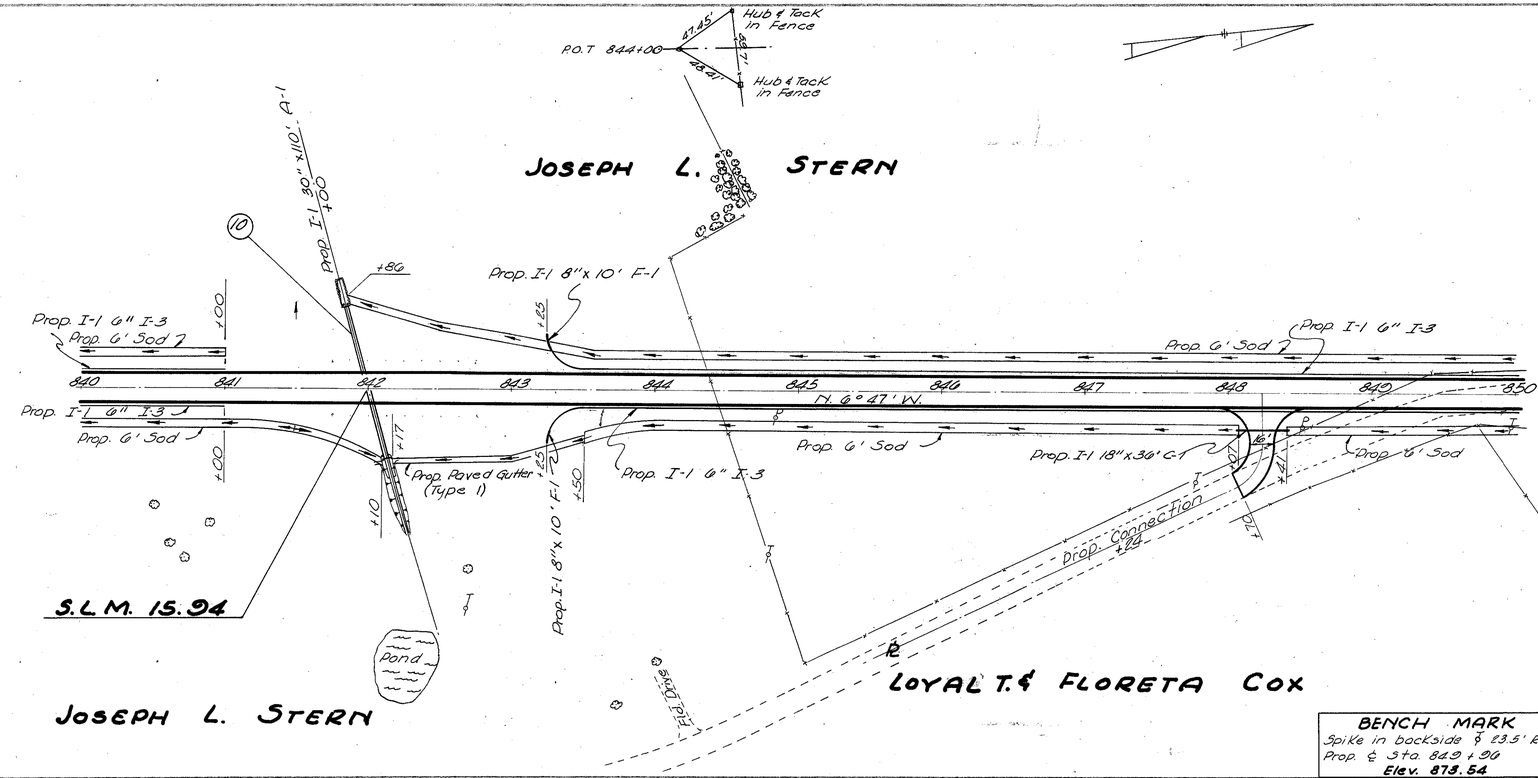
FOR DETAIL OF STRUCTURE Nº 9 SEE SHEET Nº 169

STA. 830+00 TO STA. 840+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

111

ADAMS COUNTY
ADA-247-(8.95)(14.20)



BENCH MARK
Spike in backside 8 23.5' Rt.
Prop. ℄ Sta. 849+90
Elev. 873.54

FOR ESTIMATED QUANTITIES
SEE SHEET Nº 98-100

FOR DETAIL OF STRUCTURE Nº 10
SEE SHEET Nº 178

STA. 840+00 TO STA. 850+00

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

112

ADAMS COUNTY
ADA-247-(8.95)(14.20)

S-1357 (1)

Note: Marker will be furnished and erected on the left by the State before acceptance of this improvement.

Nail & Washer in 14" Locust — 35.3' — Nail & Washer in 8" Locust
25.02' — 27.04'
P.I. Sta 856+09.21

Nail & Washer in 10" Stump — 36.8' — Nail & Washer in 18" Locust
20.70' — 36.60'
SPOT Sta 859+00

JOSEPH L. STERN

Prop. 6' Sod
+50
Fr. Barn
Cistern
Ex. Fld. Dr. +28
Fr. Bldg.
1½-Sty. Car Frame Yard Hse.
Ex. Res. Dr. +40
EQUATION 862+01.70 BACK = 863+00 AHEAD
Ex. Fld. Dr. +28
1-Sty. Fr. Hse.

850 851 852 853 854 854½ 855 856 857 858 859 860 861 862

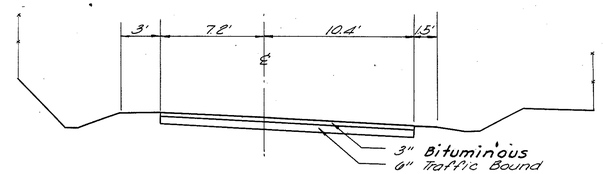
N. 6°47' W.

Prop. 6' Sod

END PROJECT
STA. 850+50
S.L.M. 16.10
END WORK
STA. 851+00

JOSEPH L. STERN

P.I. Sta 856+09.21
Δ = 0°31'45" Rt.



TYPICAL SECTION OF ADJACENT PAVEMENT AT END PROJECT

All elevations shown are in reference to U.S.G.S. Datum

Profile shown is ℄ Elevation of Prop. Pavement except on superelevated sections, see Table on Sheet No. 28.

FOR ESTIMATED QUANTITIES SEE SHEET No. 98-100

END PROJECT STA. 850+50
END WORK STA. 851+00

Future Prop. ℄
Future Prop. V.C.

880
870
860

850 851 852 853 854 855 856 857 858 859 860

STA. 850+00 TO STA. 860+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

113

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
		59	4		
41					
				55	4
114					
0		0	0		

749+50
874.83
RESUME WORK
STA. 749+50

749+00
875.22

748+50
875.76

748+00
876.40

747+50
877.19

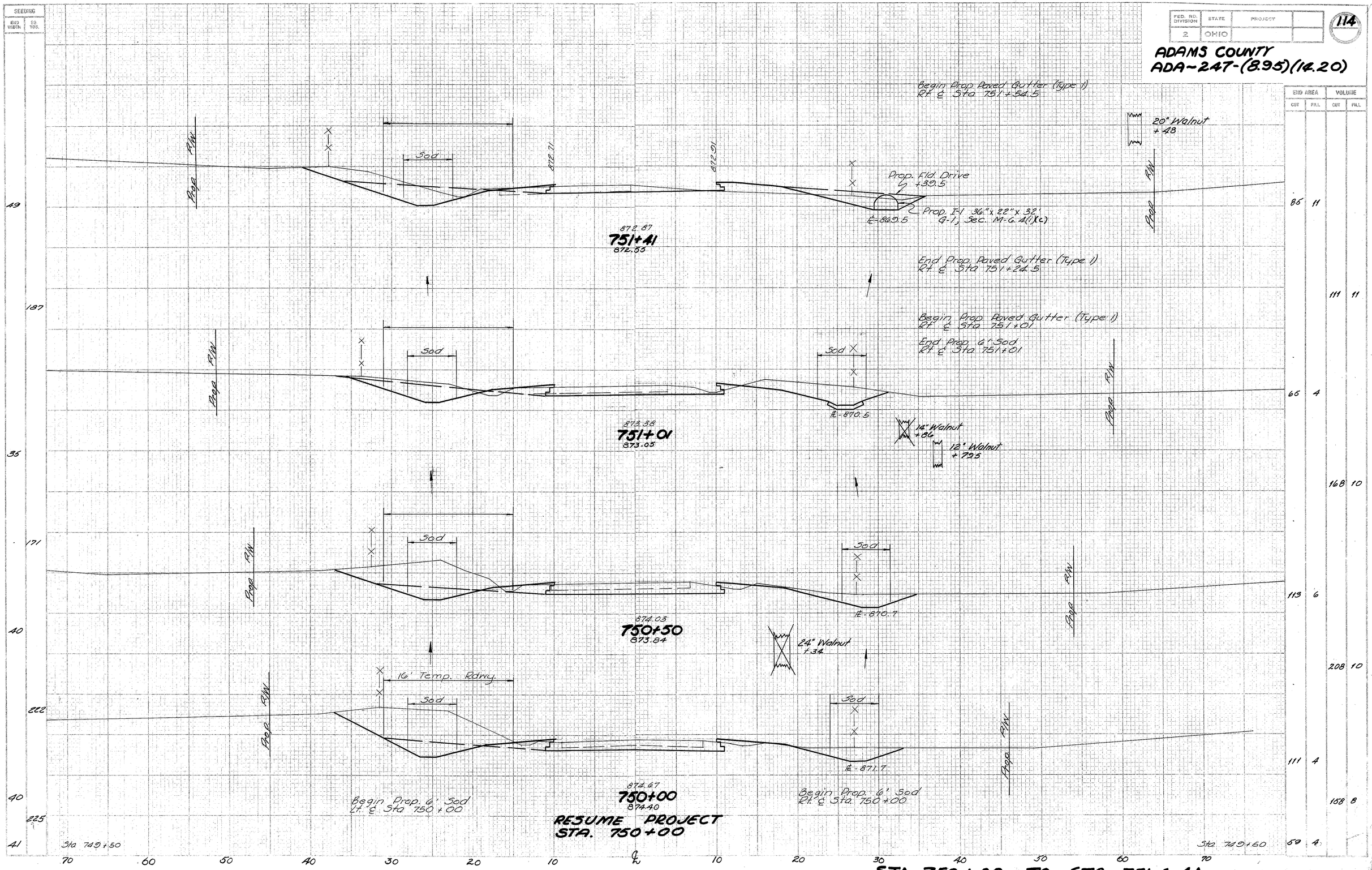
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

STA 747+50 TO STA 749+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

114

ADAMS COUNTY
ADA-247-(8.95)(14.20)



STA 750+00 TO STA 751+41

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

115

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING: END WIDTH 50, TOS

24" Honey Locust +20.5

16" Walnut +06

Begin Prop. 9' Sod Rt ℄ Sta 753+10

End Prop Dumped Rock Channel Protection (6'x2') Rt ℄ 753+10

℄ Bldg

14" Oak +87

753+01
866.29

Begin Prop Dumped Rock Channel Protection Rt ℄ 753+00 (6'x2')

End Prop Paved Gutter (Type 1) Rt ℄ Sta 753+00

28" Hackberry +75

14" Walnut +75

12" Walnut +62

℄ 863.8

752+61
871.78

14" Hickory +42

12" Walnut +43

Begin Prop. Paved Gutter (Type 1) Rt ℄ Sta 752+50

752+21
872.88

End Prop. Paved Gutter (Type 1) Rt ℄ Sta 752+00

751+81
871.68

℄ 868.0

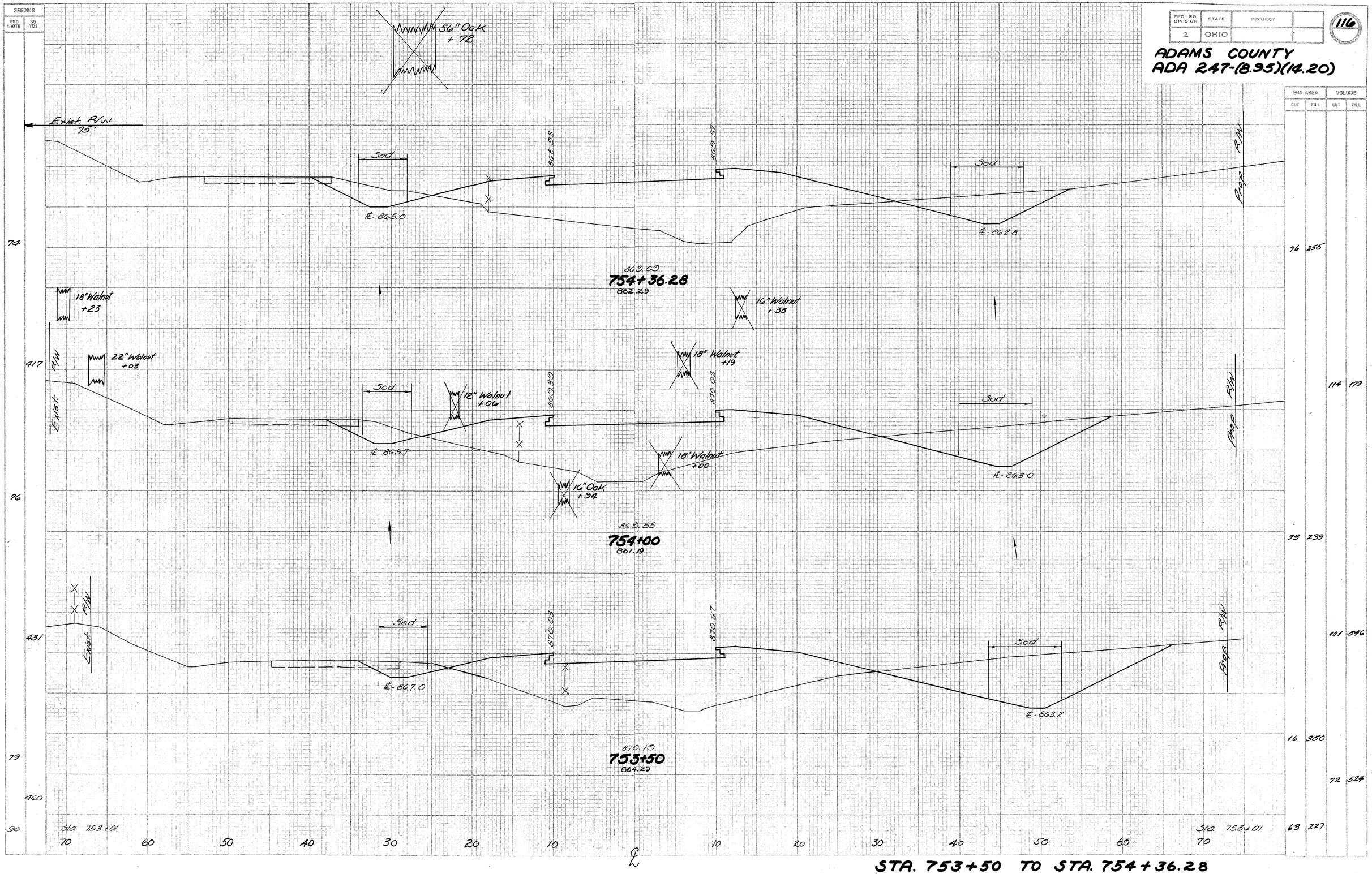
	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	69	227		
			73	219
	36	69		
	64	50		
	51	7		
	62	38		
	34	45		
	88	42		
	86	11		

STA 751+81 TO STA 753+01

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

116

ADAMS COUNTY
ADA 247-(8.95)(14.20)



STA. 753+50 TO STA. 754+36.28

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

117

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
83	481	38	383	88	570
90	467	80	387	96	552
78	425	49	358	88	456
75	412	70	258	71	380
77		26	255		

Begin Prop Paved Gutter (Type 1)
Rt. ℄ Sta 756+00

End Prop. 9' Sod
Rt. ℄ Sta 756+00

Exist. R/W 89.5'
Sod
866.88
867.14
℄ - 859.0
Sod
R/W
Prop
℄ 861.5

755+96.28
859.88

Exist. R/W 85'
Sod
12" Walnut +70
867.32
867.74
℄ 860.5
Sod
℄ 861.8

18" Honey Locust +34

755+56.28
860.18

Exist. R/W 82'
Sod
16", 18", 24" Honey Locust +32
867.30
868.35
14" Honey Locust +28
℄ 862.5
Sod
℄ 862.4

12" Walnut +14

755+16.28
859.78

Exist. R/W 78.5'
Sod
868.41
868.95
℄ 863.7
Sod
℄ 862.0

754+76.28
862.38

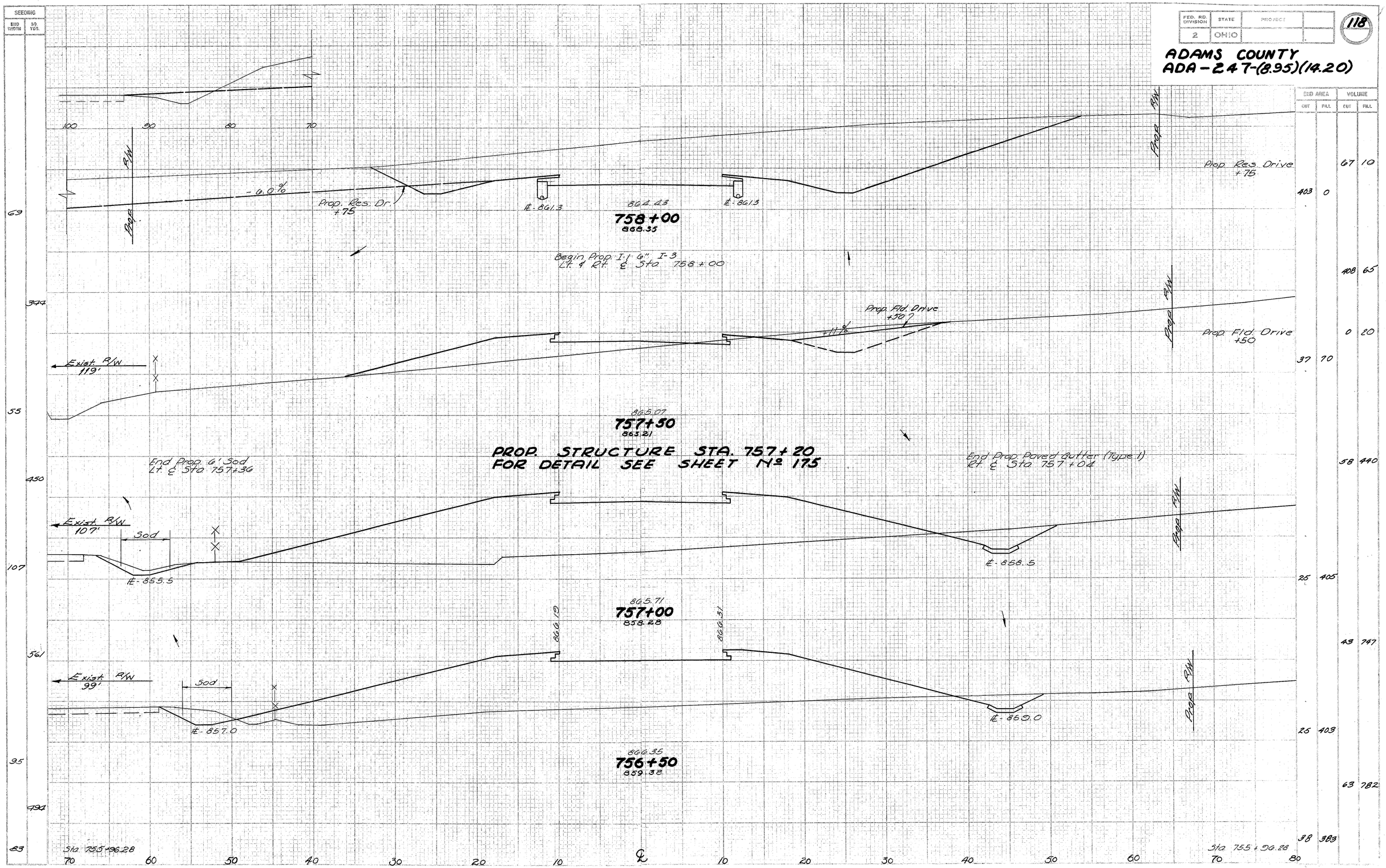
Sta 754+30.28
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70
Sta 754+30.28

STA. 754+76.28 TO STA. 755+96.28

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

118

ADAMS COUNTY
ADA-247-(8.95)(14.20)

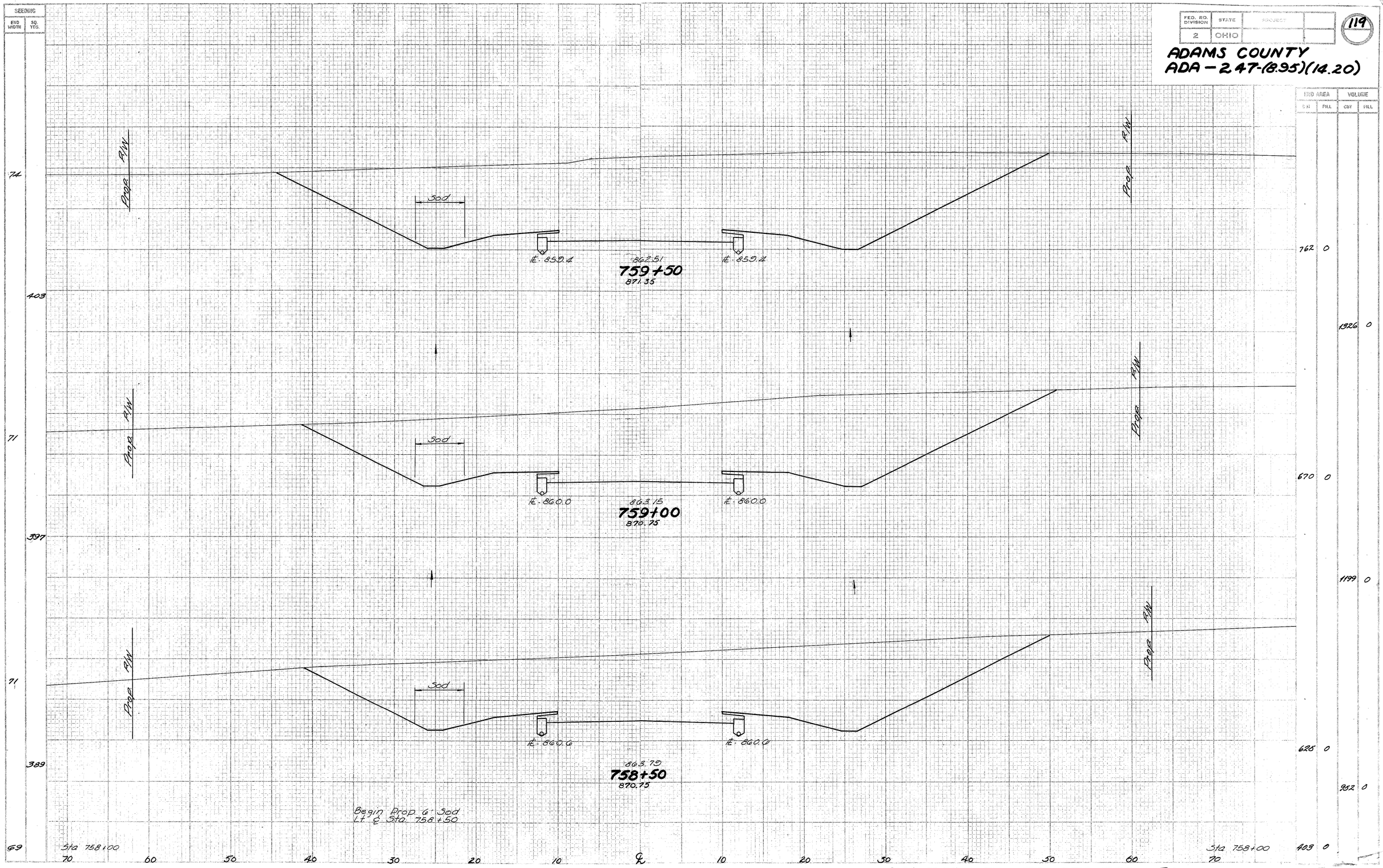


STA 756+50 TO STA 758+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

119

ADAMS COUNTY
ADA-247-(8.95)(14.20)

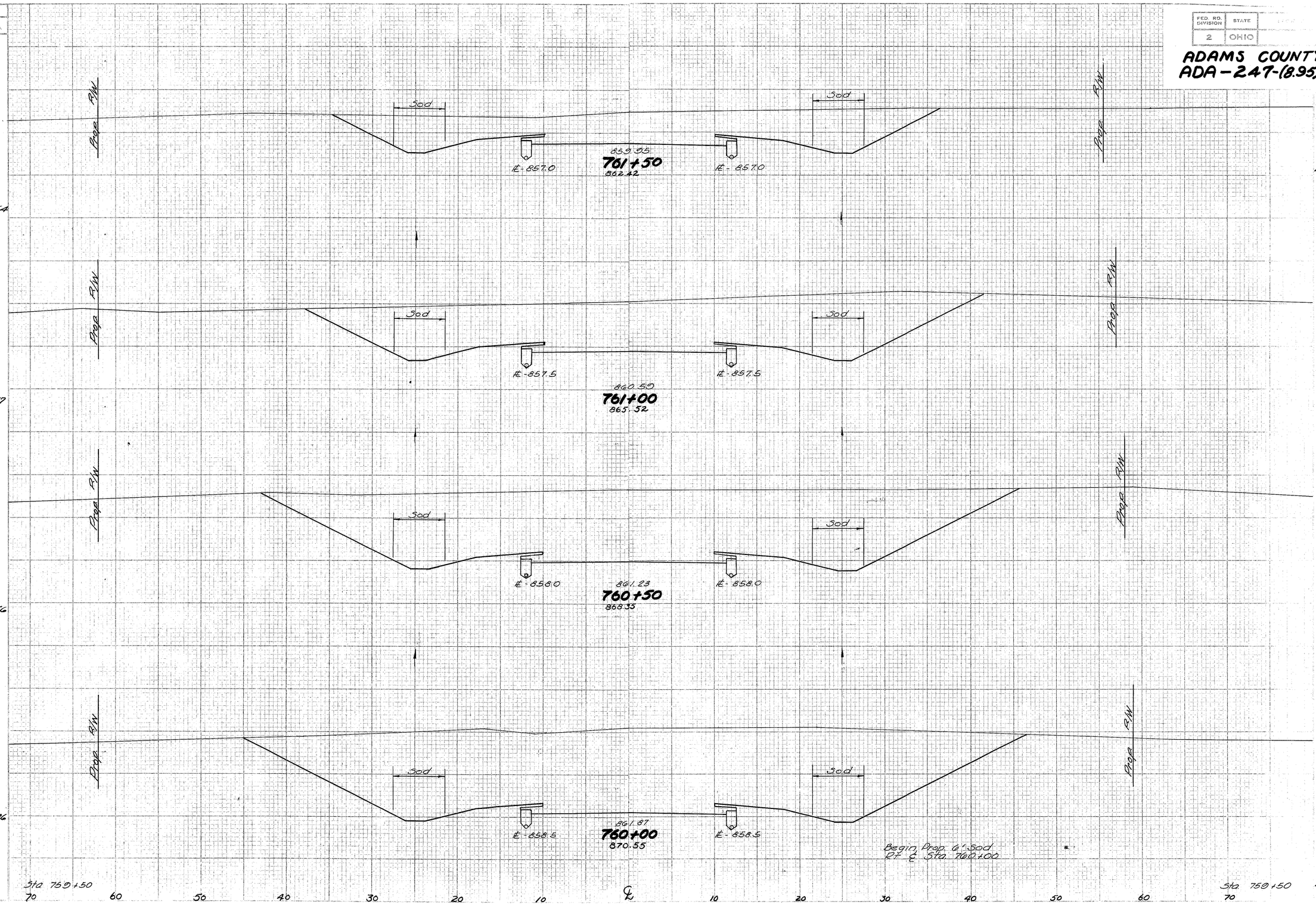


STA 758+50 TO STA 759+50

FED. RD. DIVISION	STATE
2	OHIO

120

ADAMS COUNTY
ADA-247-(8.95)(14.20)

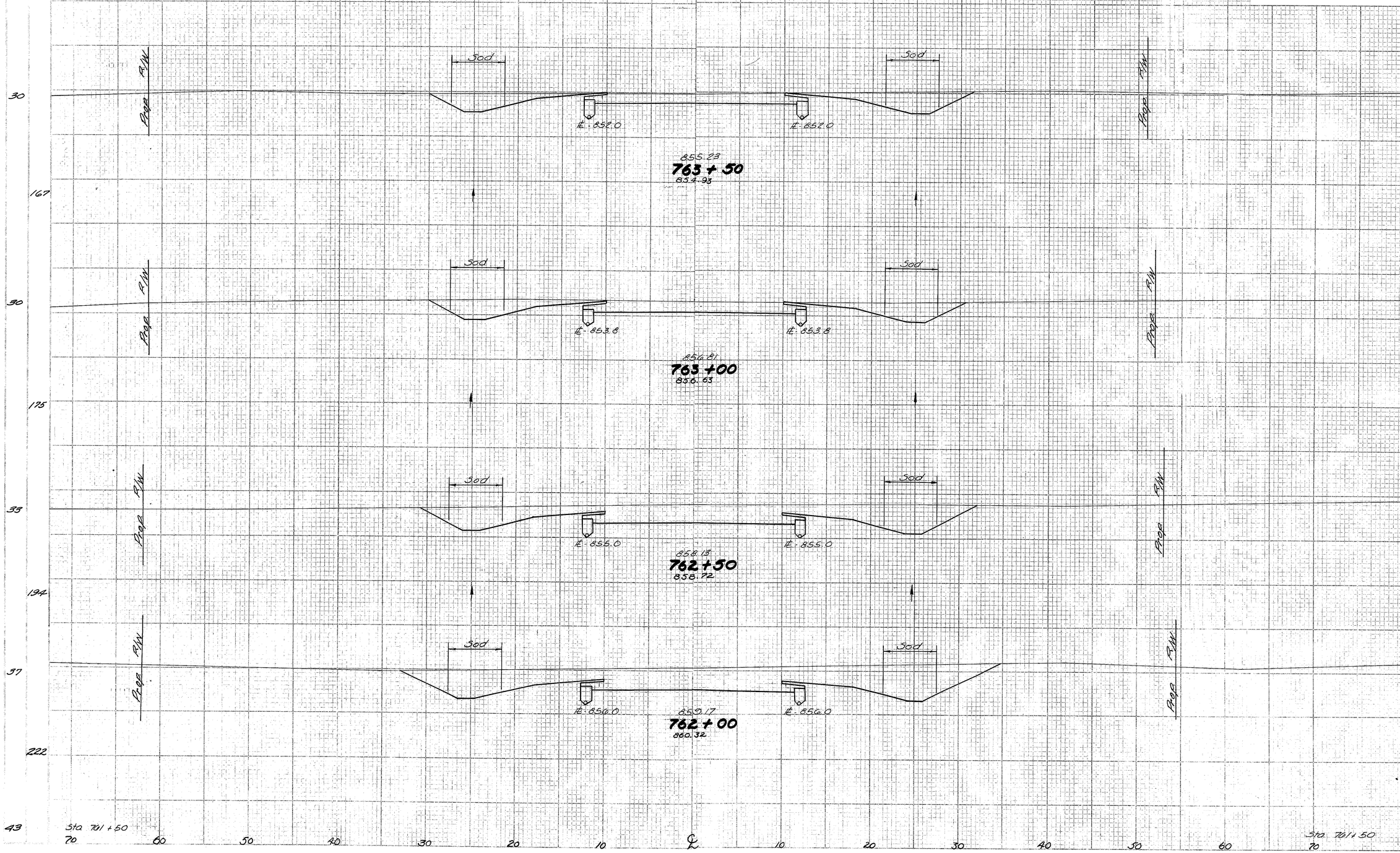


STA 760+00 TO STA 761+50

ADA-247-(8.95)(14.20)
BIN A-4

DIVISION	STATE		
2	OHIO		

ADAMS COUNTY
ADA - 247-(8.95)(14.20)



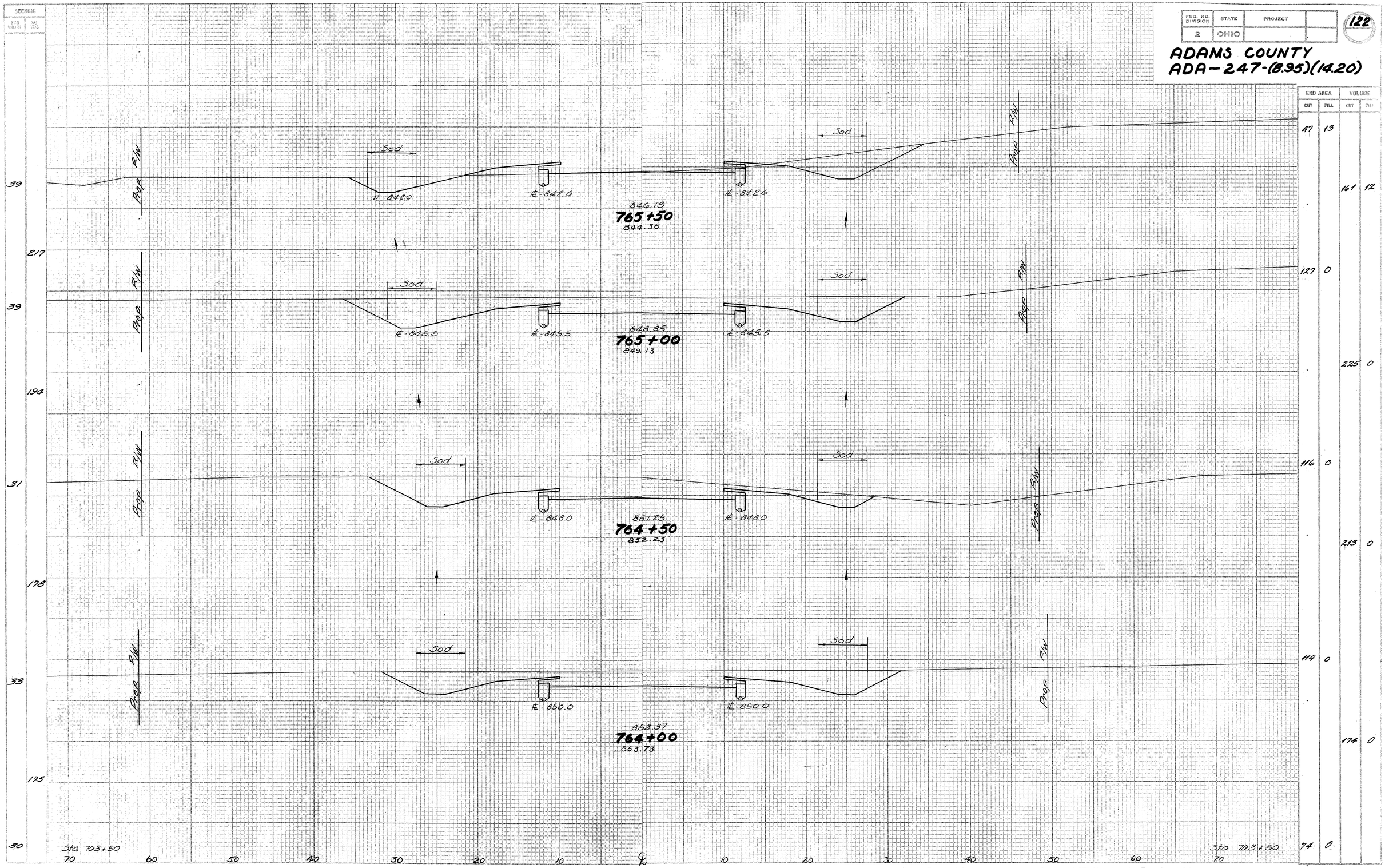
END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
74	0		
		135	0
71	0		
		171	0
113	0		
		279	0
188	0		
		388	0
231	0		

STA 762 + 00 TO STA 763 + 50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

122

ADAMS COUNTY
ADA-247-(8.95)(14.20)

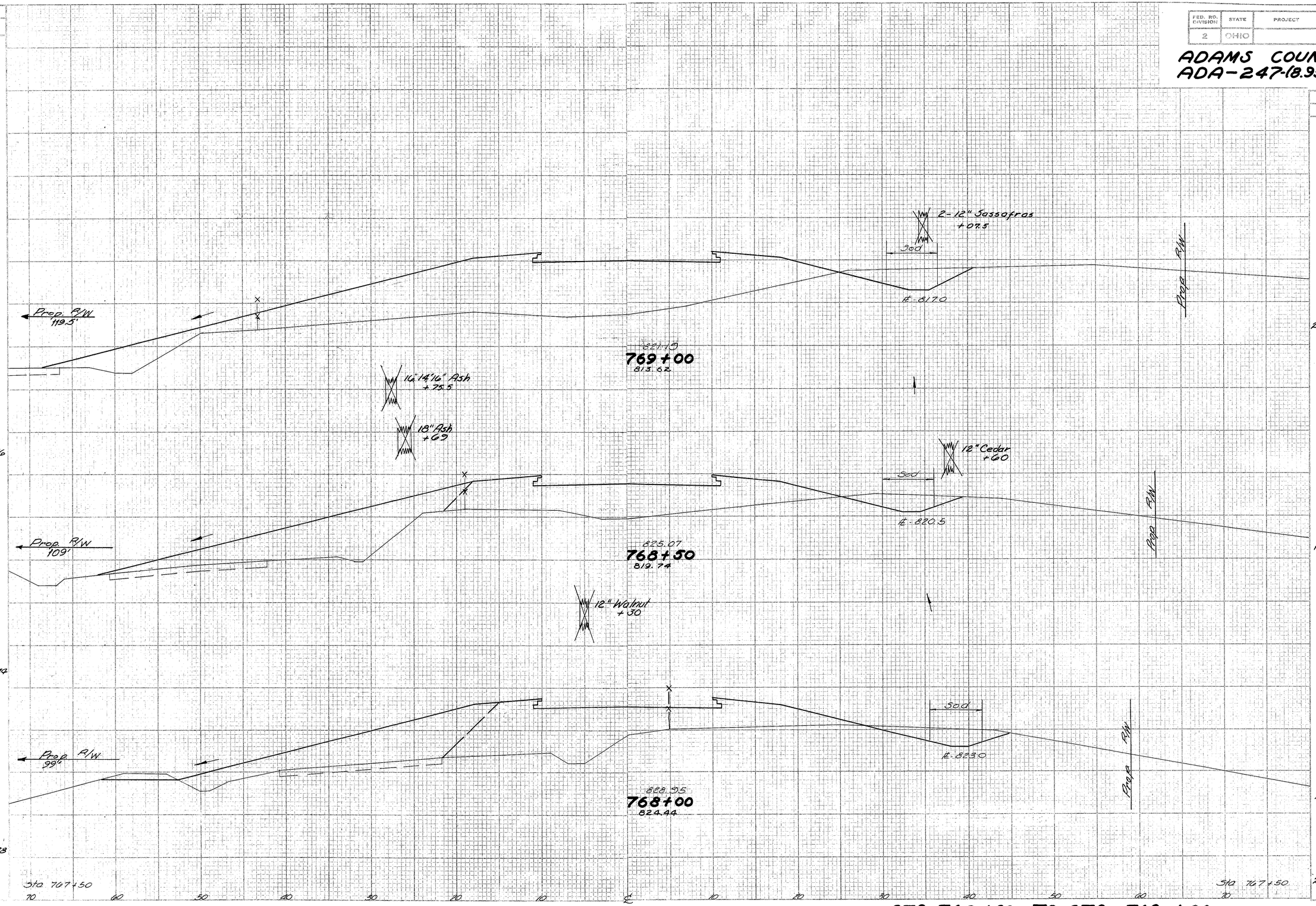


STA 764+00 TO STA 765 + 50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

124

ADAMS COUNTY
ADA-247-(8.95)(14.20)



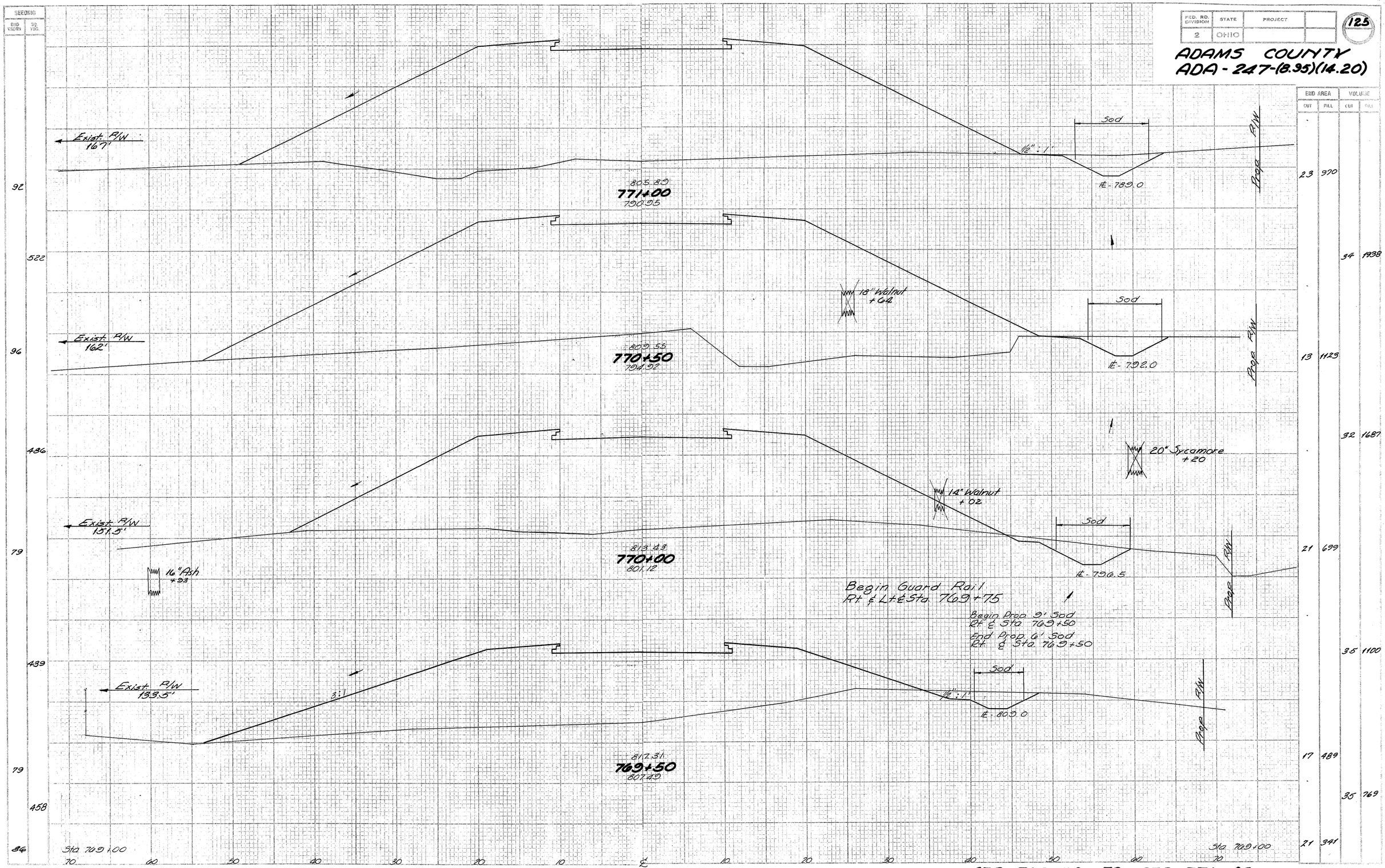
END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
21	341		
		35	556
17	259		
		40	507
26	288		
		45	552
22	308		

STA 768+00 TO STA. 769+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

125

ADAMS COUNTY
ADA-247-(8.95)(14.20)

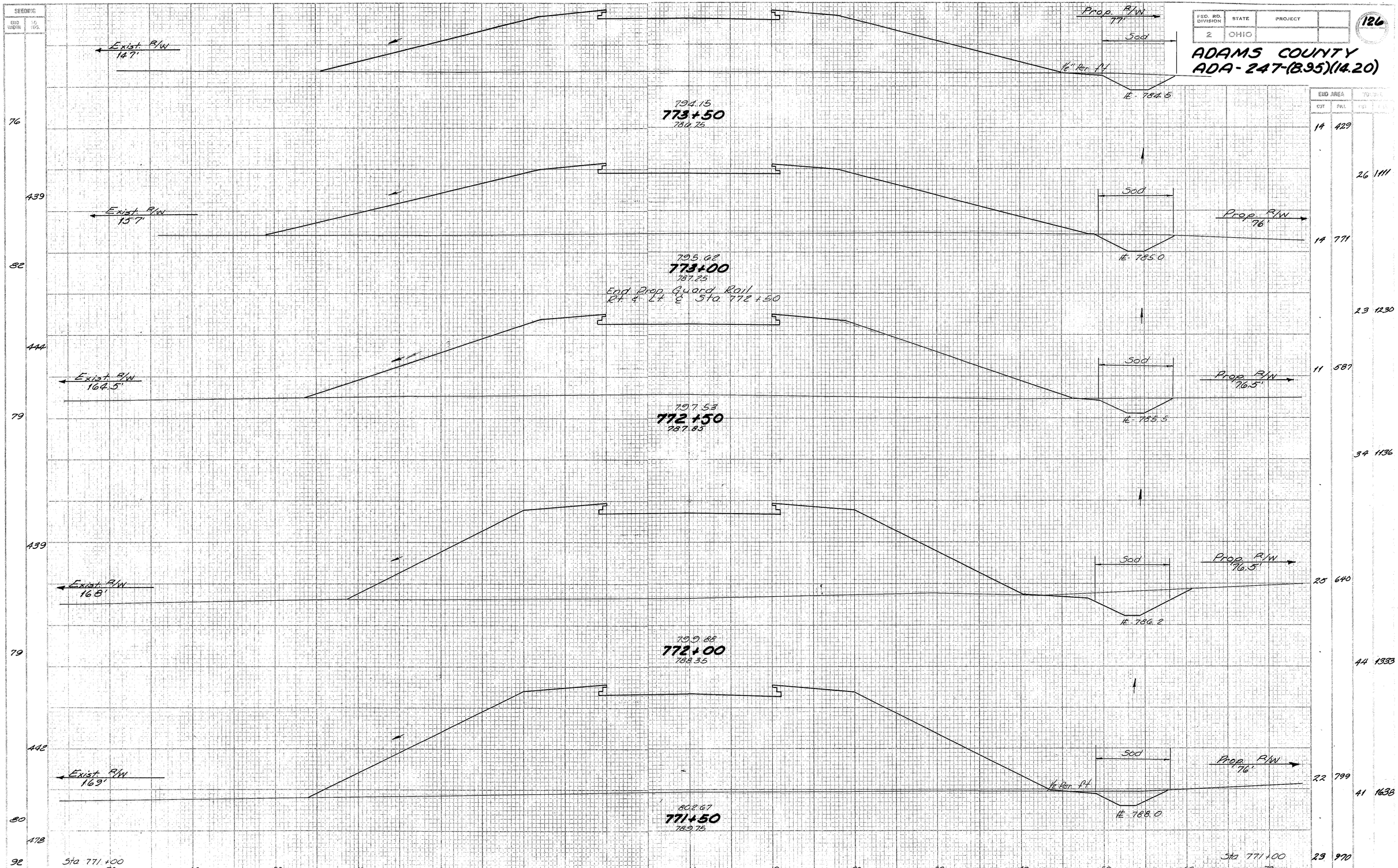


STA. 769+50 TO STA. 771+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

126

ADAMS COUNTY
ADA-247-(8.95)(14.20)



STA. 771+50 TO STA. 773+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

127

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING	
ENG. (ACRES)	CO. YDS.

L-9 Seeding & Protecting Sta. 774+50 to Sta. 776+00
20,260 Sq Yds

Prop. Channel R/W 137.5'
Exist. R/W 103'

Sta. 775+88.40

End Prop Dumped Rock Channel Protection Lt & Sta. 775+85

776+00
778.35
BRIDGE LIMITS
STA. 775+88.40

Sod
Prop. R/W 79.5'
℄ - 776.0

This Sec. for Ditch Detail only

Prop Channel R/W 148'
Exist. R/W 109'

Begin Prop. Guard Rail Rt & Sta. 775+21

Sod
Prop. R/W 79'
½" per ft
℄ - 779.0

Begin Prop. Dumped Rock Channel Protection Lt & Sta. 775+30

14" Walnut +23.4

Begin Prop. Guard Rail Lt & Sta. 775+25

792.64
775+50
782.65

12" Walnut +15

14" Walnut +04.5

792.36
775+00
785.37

Prop Channel R/W
Exist. R/W 117'

3:1

Sod
Prop. R/W 78.5'
℄ - 782.0

Prop Channel R/W 120'
Exist. R/W 126'

792.58
774+50
786.47

Sod
Prop. R/W 78'
℄ - 783.0

Exist. R/W 131'

Sod
Prop. R/W 77.5'
½" per ft
℄ - 784.0

793.12
774+00
786.37

Sta. 773+50

Sta. 773+50

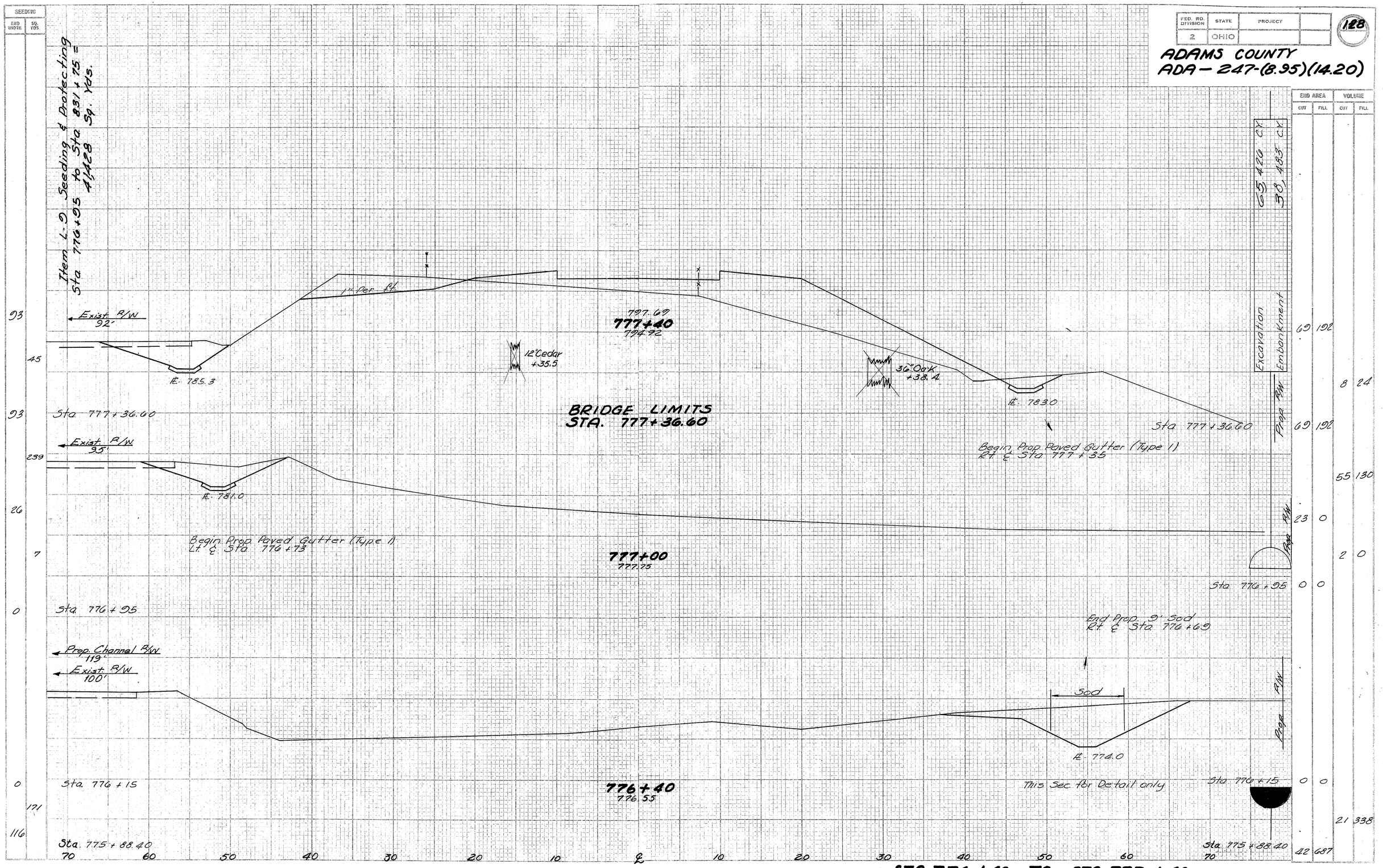
EMB AREA		VOLUME	
CUT	FILL	CUT	FILL
	42		687
		12,803 C.Y.	24493 C.Y.
			60 077
	42		687
		Excavation	Embankment
			76 099
	40		392
			56 662
	20		323
			28 625
	10		352
			22 723
	14		429

STA. 774+00 TO STA. 776+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

128

ADAMS COUNTY
ADA – 247-(8.95)(14.20)



STA 776+40 TO STA 777+40

FED. RD. DIVISION	STATE	PROJECT		129
2	OHIO			

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING			END AREA		VOLUME	
END WIDTH	SQ. YDS		CUT	FILL	CUT	FILL
		Exist. R/W 78'				
		3od				
		Prop. R/W 71'				
		E- 803.0				
57		Begin Prop. 6' Sod Lt. ℄ Sta. 779+00				
		End Prop. Paved Gutter (Type 1) Lt. ℄ Sta. 779+00				
		806.85 **779+00** 806.10				
350			44	11		
					82	107
		Exist. R/W 82.5'				
		1¼" Per Ft.				
		E- 798.0				
		E- 799.0				
69			44	104		
		803.51 **778+50** 799.82				
					101	247
425		Exist. R/W 87'				
		E- 792.5				
		Prop. R/W 75.5'				
		E- 795.0			65	162
84		800.60 **778+00** 795.82				
		End Prop. Guard Rail Lt. ℄ Sta. 777+78				
		End Prop. Guard Rail Rt. ℄ Sta. 777+72			62	159
241		Exist. R/W 89'				
		1" Per Ft.				
77		E- 789.0				
		E- 792.0			60	155
311		799.21 **777+73** 796.02			73	212
93		Sta. 777+40			69	192
		70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70				
		Sta. 777+40				

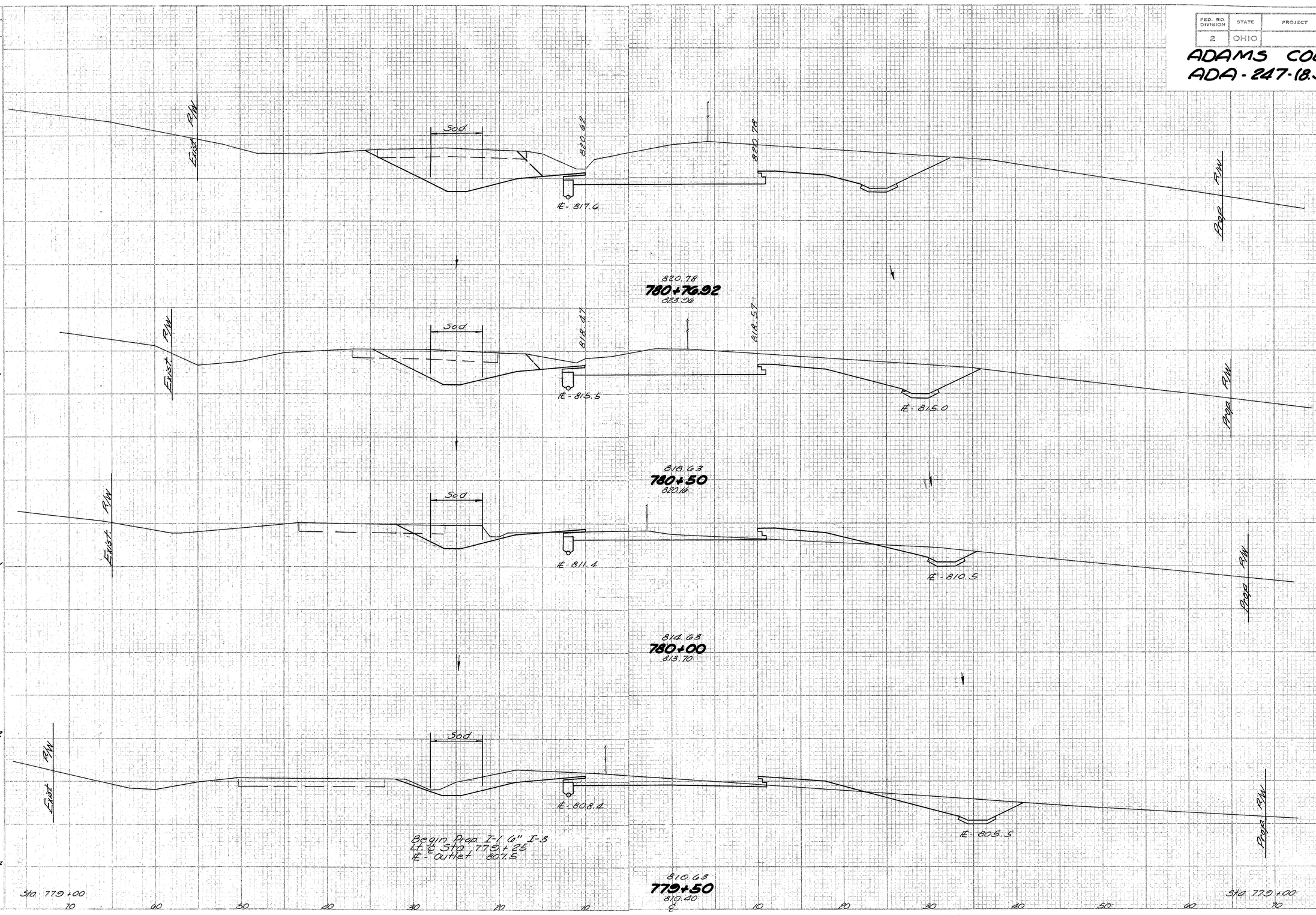
STA. 777+73 TO STA. 779+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

130

ADAMS COUNTY
ADA-247-(18.95)(14.20)

SEEDING		END AREA		VOLUME	
END GROWTH	SQ. YDS.	CUT	FILL	CUT	FILL
46	153	239	0	227	0
56	311	157	0	196	12
56	392	54	13	110	21
67	371	64	9	100	19
57		44	11		



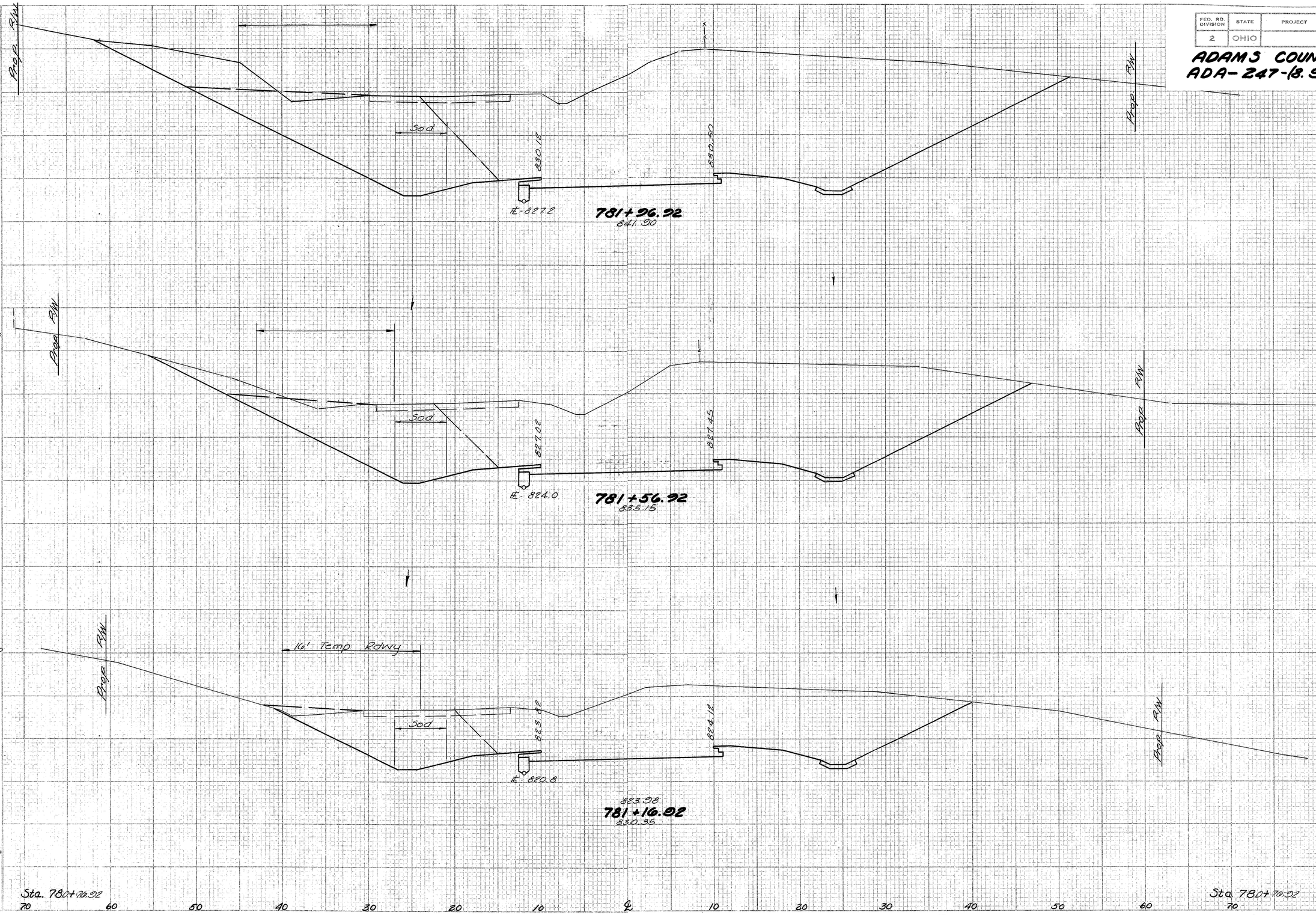
STA. 779+50 TO STA. 780+76.92

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

131

ADAMS COUNTY
ADA-247-(8.95)(4.20)

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
		1041	0		
96				1336	0
400		763	0		
84				916	0
300		473	0		
51				572	0
216					
46		299	0		



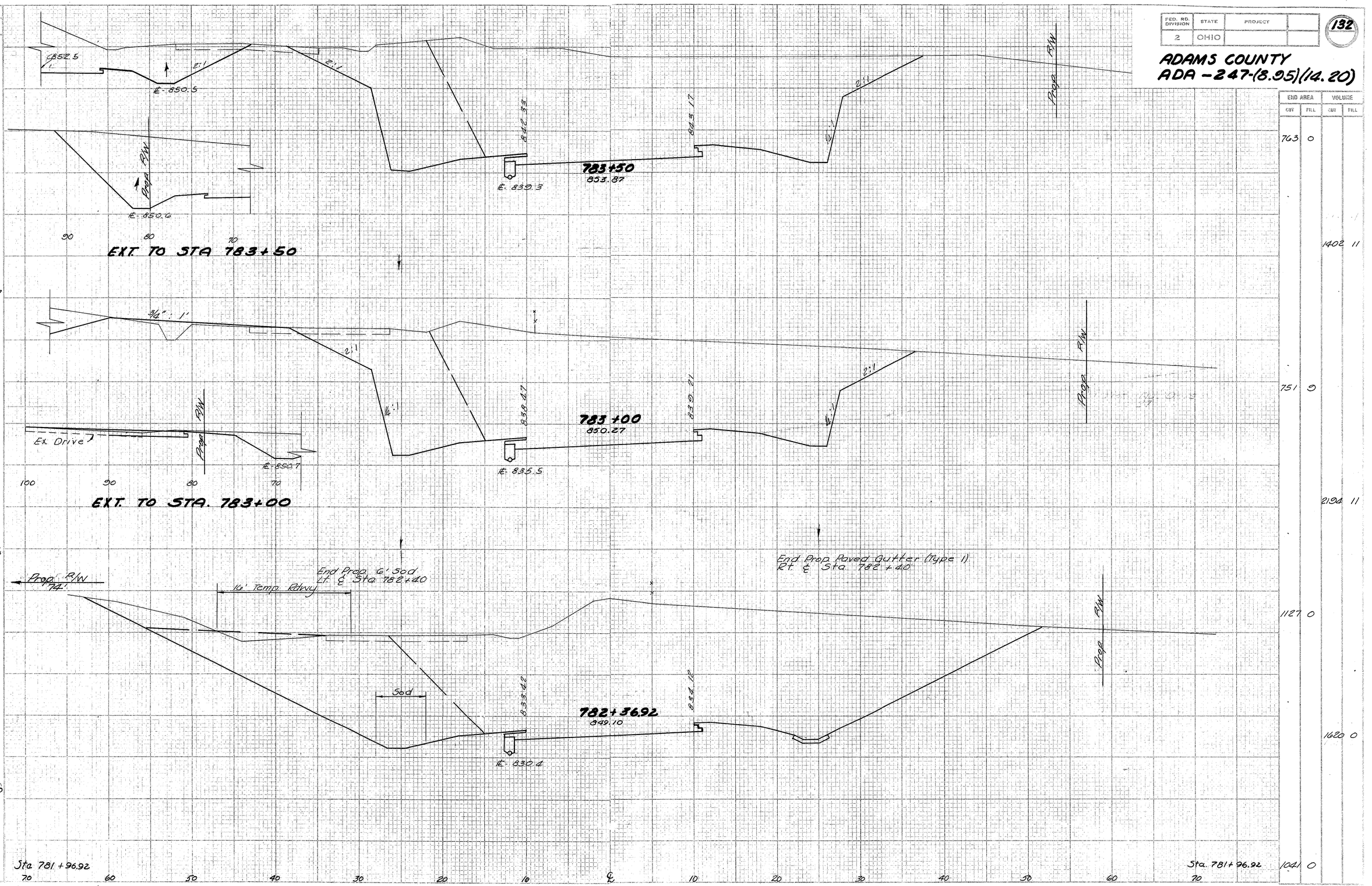
Sta. 781+16.92 to 781+96.92

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

132

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING		END AREA		VOLUME	
END WIDTH	SQ YDS	CUT	FILL	CUT	FILL
		763	0		
68					
				1402	11
367					
		751	0		
64					
				2194	11
330					
				1127	0
93					
				1620	0
420					
96				1041	0

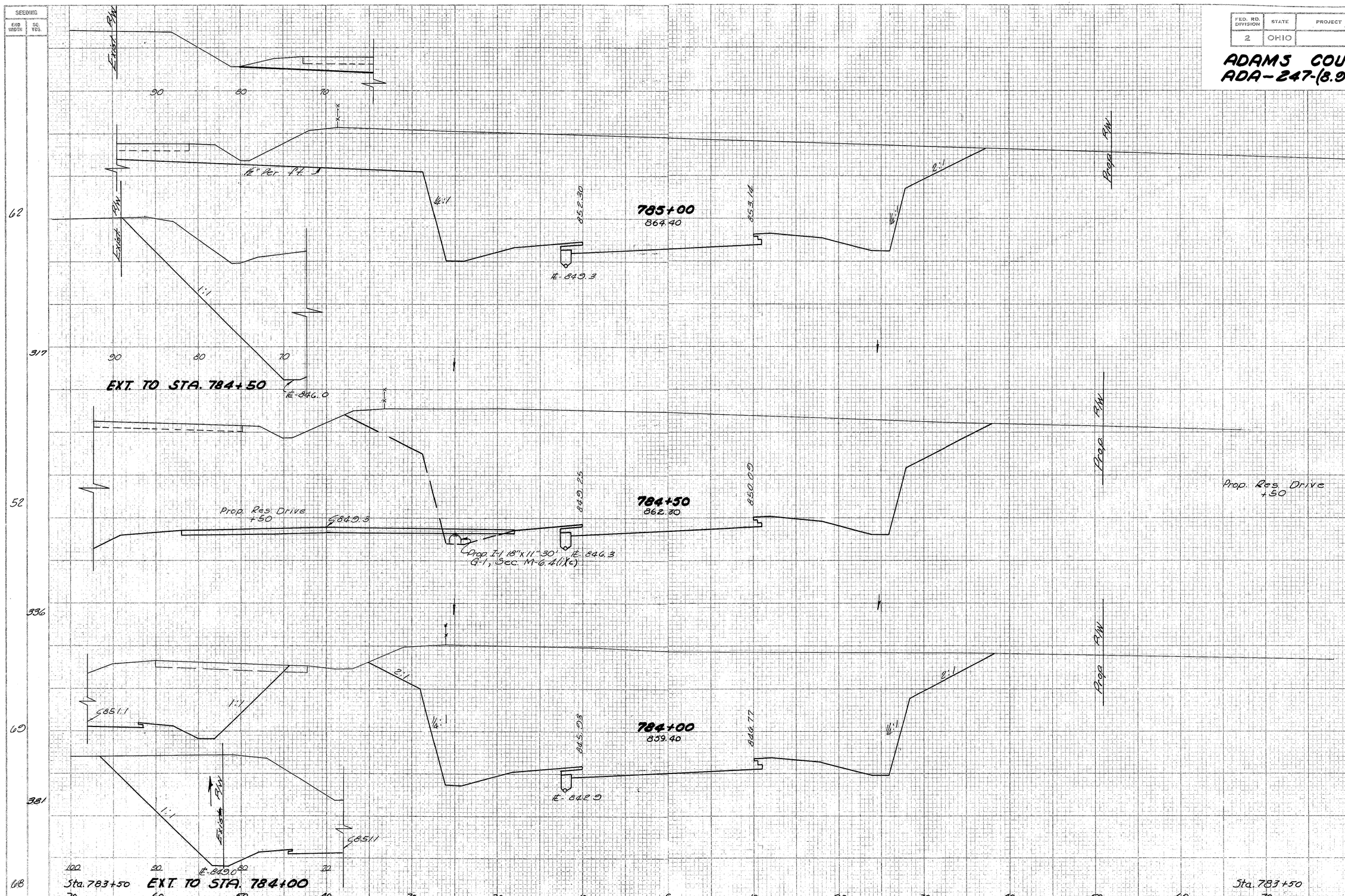


STA. 782+36.92 TO STA. 783+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

133

ADAMS COUNTY
ADA-247-(8.95)(14.20)



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
865	0		
		1547	0
805	0	1797	3
		1521	0
837	0		
		1482	0
763	0		

STA. 784+00 TO STA. 785+00

FED. RD. DIVISION	STATE	PROJECT		134
2	OHIO			

ADAMS COUNTY
ADA – 247-(8.95)(14.20)

SEEDING		END AREA		VOLUME	
END WIDTH	SQ YDS	CUT	FILL	CUT	FILL
		911	0		
67					
	298				
				1288	0
67					
				828	0
	291				
				1291	0
64					
	307				
				915	0
				1447	0
62				865	0

786+23.90
868.66

785+83.90
867.56

785+43.90
865.96

STA 785 + 43.90 TO STA 786+23.90

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

135

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING		END AREA		VOLUME	
END YRD/1K	SQ. YDS.	CUT	FILL	CUT	FILL

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

136

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING

END WIDTH	SQ. YDS.
72	378
64	331
73	414
76	514
109	611
112	

Exist. R/W

100 90 80 70

E-865.4 E-865.0 E-865.0 E-865.4

Prop. R/W

868.03
790+00
870.16

Exist. R/W

100 90 80 70

+5.2%

Prop. Fld. Drive +50

E-864.8 E-864.8

867.00
789+50
870.16

+4.1%

Prop. Fld. Drive +50

Prop. R/W

Exist. R/W

100 90 80

Exist. R/W

100 90 80 70

E-863.9 E-863.9

867.00
789+00
870.30

Prop. R/W

Exist. R/W

100 90 80 70

E-863.0 E-863.0

866.21
788+50
869.96

Prop. R/W

Exist. R/W

100 90 80 70

1/2" Per Ft

862.87 862.88

E-861.9 E-862.0

865.03
788+00
870.86

Begin Prop. I-1 6" I-3
Rt. & Sta. 788+00

Prop. R/W

Sta 787+50 Sta. 787+50

70 60 50 40 30 20 10 & 10 20 30 40 50 60 70

Prop Fld Drive
Lt & Sta 789+50

Prop Fld Drive
Rt & Sta 789+50

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
228	0		
		368	35
		0	47
		0	10
169	37		
		396	35
258	0		
		537	0
322	0		
		802	0
544	0		
		1045	0
584	0		

STA. 788+00 TO STA. 790+00

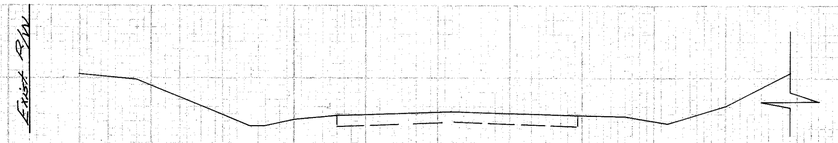
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

137

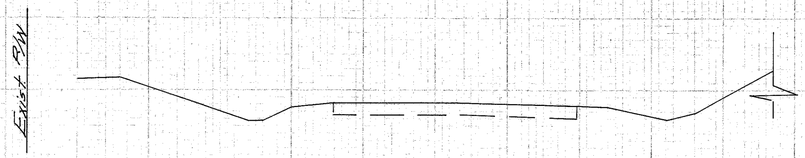
ADAMS COUNTY
ADA - 247 - (8.95)(14.20

SEEDING	
END WIDTH	SQ. YDS.

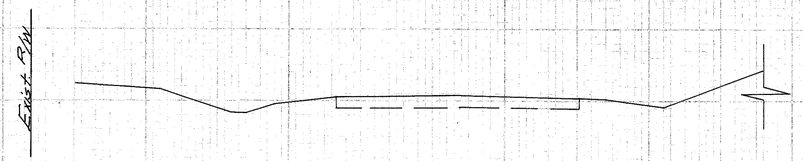
END AREA		VOLUME	
CUT	FILL	CUT	FILL



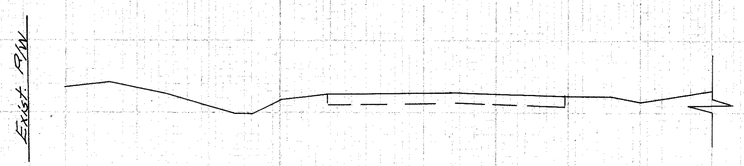
STA. 792 + 50



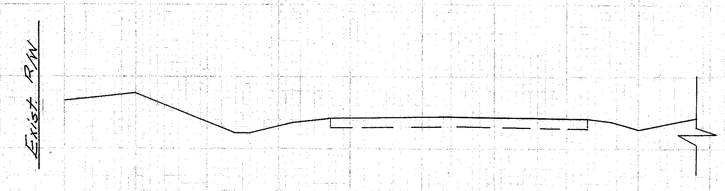
STA. 792 + 00



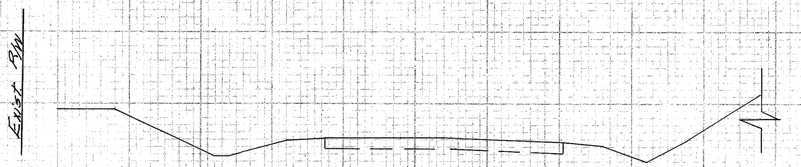
STA. 791 + 50



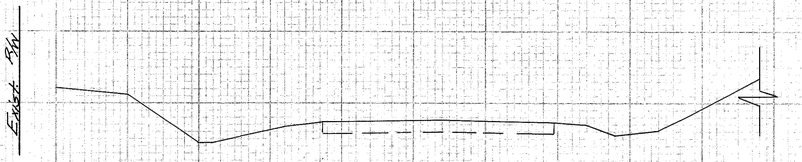
STA. 791 + 00



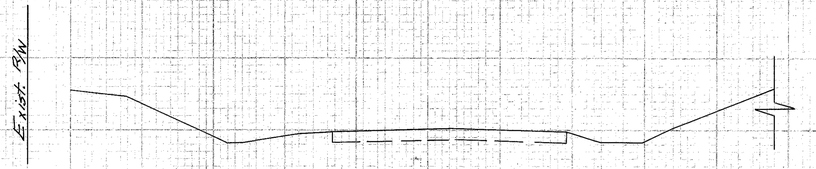
STA. 790 + 50



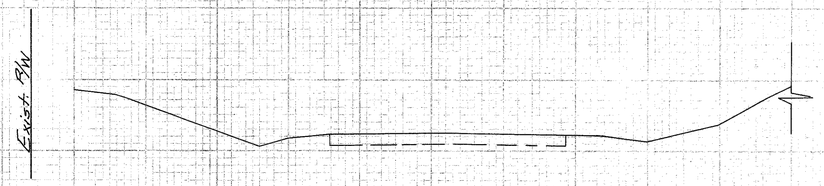
STA. 794 + 50



STA. 794 + 00



STA. 793 + 50



STA. 793 + 00

100 90 80 70 60 50

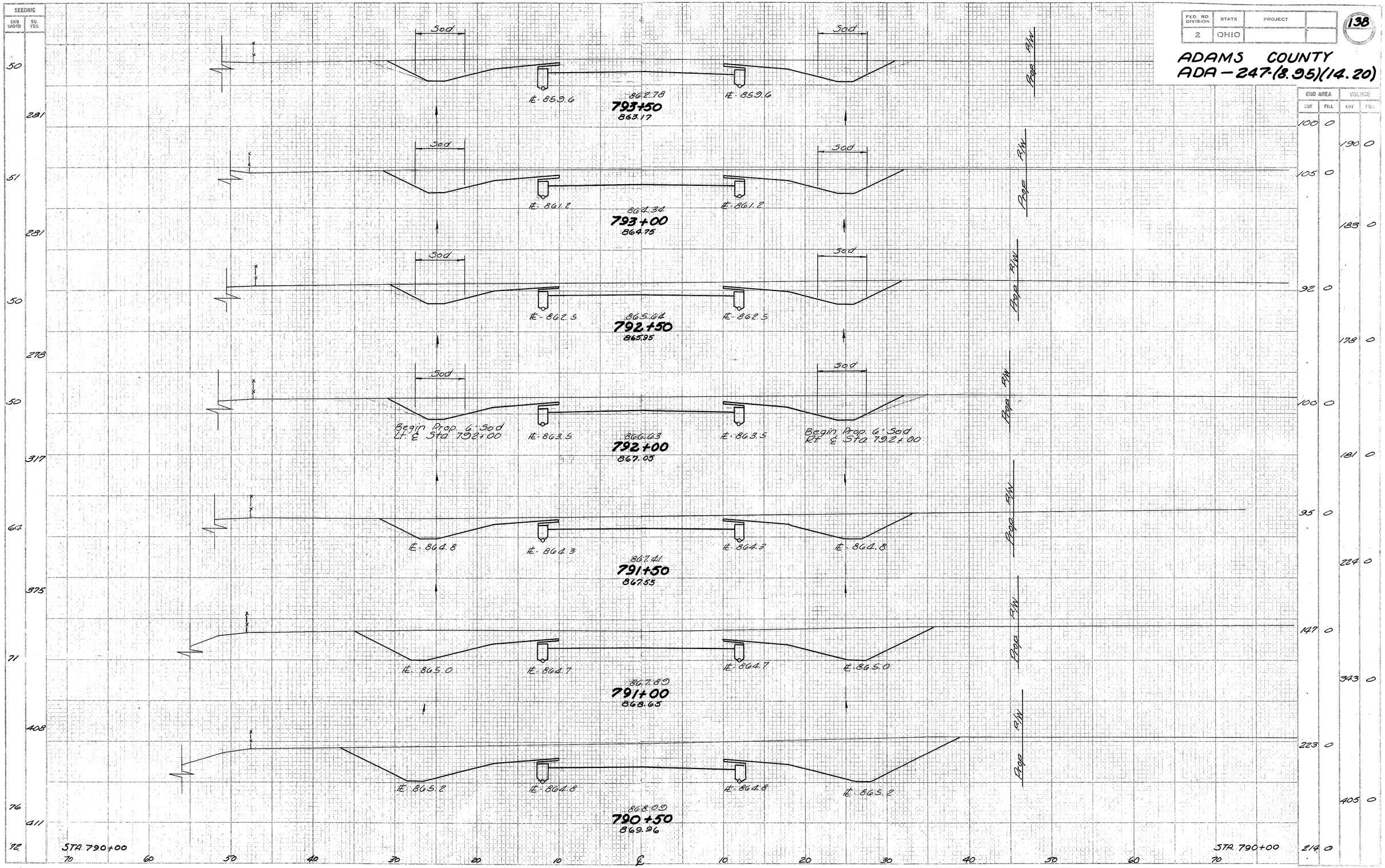
100 90 80 70 60 50

EXTENSIONS STA. 790 + 50 TO STA. 794 + 50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

138

ADAMS COUNTY
ADA-247-(8.95)(14.20)



STA 790+50 TO STA. 793+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

139

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING	
END WIDTH	SQ. YDS.
68	947
57	308
54	300
54	294
52	283
50	

End Prop. 6" Sod
Lt. ℄ Sta. 796+00

Exist. R/W
119.5'

100 90 80 70 60

Sod

℄ - 847.7

850.89
796+00
853.37

Exist. R/W
108'

90 80 70 60 50

℄ - 850.7

853.81
795+50
854.07

Exist. R/W

100 90 80 70 60 50

Begin Prop. 6" Sod
Rt. ℄ Sta. 795+41

End Prop. 6" Sod
Rt. ℄ Sta 795+09

+7.5%

Prop. Fld. Drive
+25

Prop. I-1 12"x 34' C-1

℄ - 853.3

856.46
795+00
857.67

℄ - 855.7

858.84
794+50
860.07

℄ - 857.8

860.94
794+00
861.77

Sta 793+50

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

Sta 793+50

Prop. R/W

10", 12", 14" Wild Cherry
+22.6

Prop. R/W

Prop. R/W

Prop. R/W

Prop. R/W

Prop. R/W

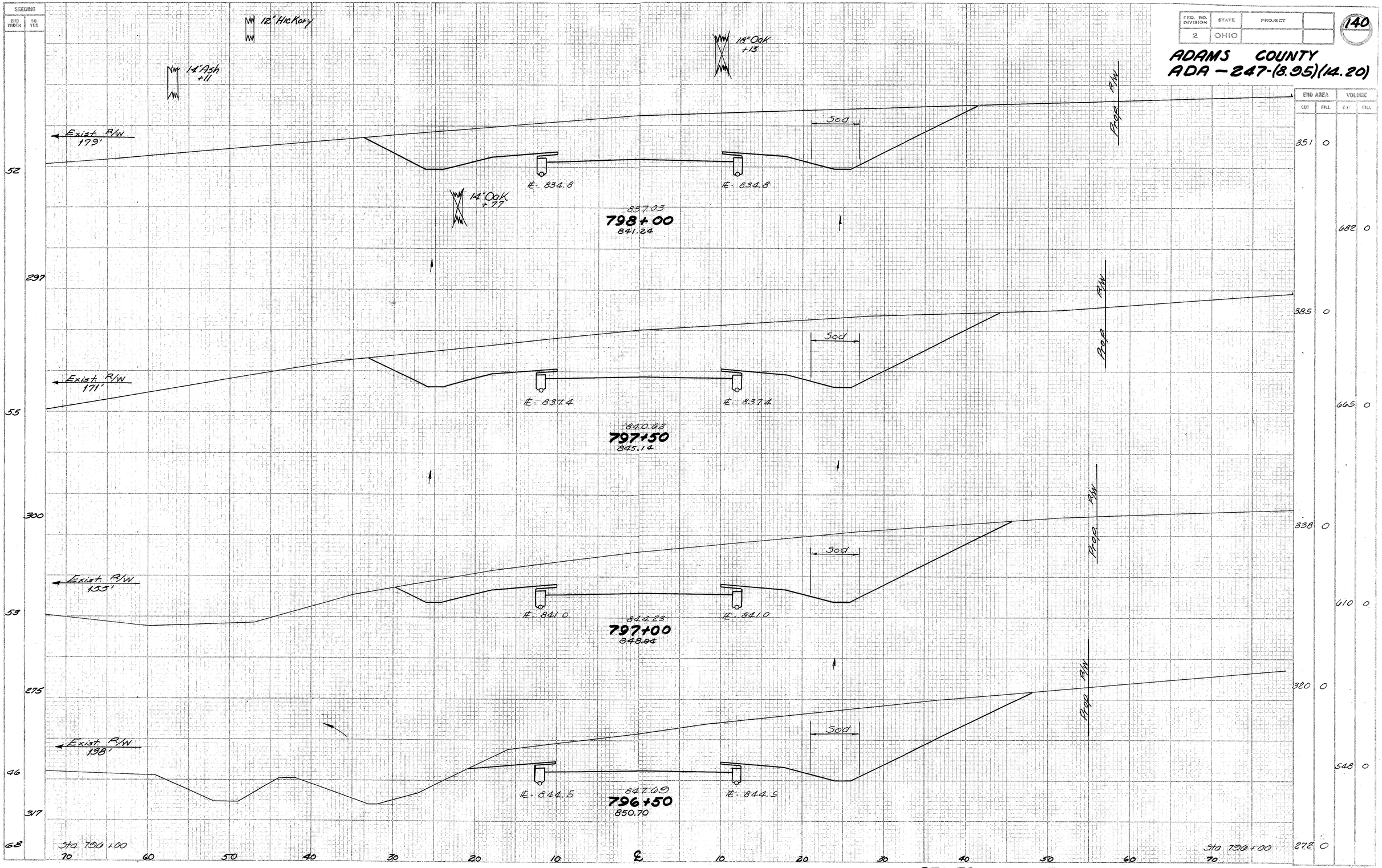
END AREA		VOLUME	
CUT	FILL	CUT	FILL
272	0		
		394	0
153	0		
		301	0
		4	11
172	0		
		317	0
170	0		
		273	0
125	0		
		209	0
100	0		

STA 794+00 TO STA. 796+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

140

ADAMS COUNTY
ADA – 247-(8.95)(14.20)



STA 796+50 TO STA. 798+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

141

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING

END WIDTH	SQ. YDS.
93	
486	
82	
378	
54	
258	
39	
253	
52	

16" Buckeye

12" Oak +37

14" Walnut +14.5

12" Oak +54

Prop. R/W 148'

Exist. R/W 173'

Exist. R/W 179.5'

Prop. R/W 161'

2:1

3:1

-14.5%

Prop. Fld. Dr. 7 +50

Prop. Fld. Drive +60

Prop. Fld. Drive +00 -9.3%

Prop. I-1 12" x 36' C-1

823.41
800+00
805.10

826.42
799+50
817.30

829.83
799+00
825.20

833.43
798+50
835.38

E- 807.7

E- 815.6

E- 828.0

E- 828.0

E- 830.5

E- 830.5

Begin Prop. Guard Rail Rt. & Lt. ℄ Sta 799+75

Begin Prop. Paved Gutter (Type 1) Rt. ℄ Sta 799+17

End Prop. Paved Gutter (Type 1) Rt. ℄ Sta 798+83

End Prop. I-1 6" I-3 Rt. & Lt. ℄ Sta 798+75

Begin Prop. Paved Gutter (Type 1) Lt. ℄ Sta 798+50

End Prop. 6" Sod Rt. ℄ Sta 798+50

Sta 798+00

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

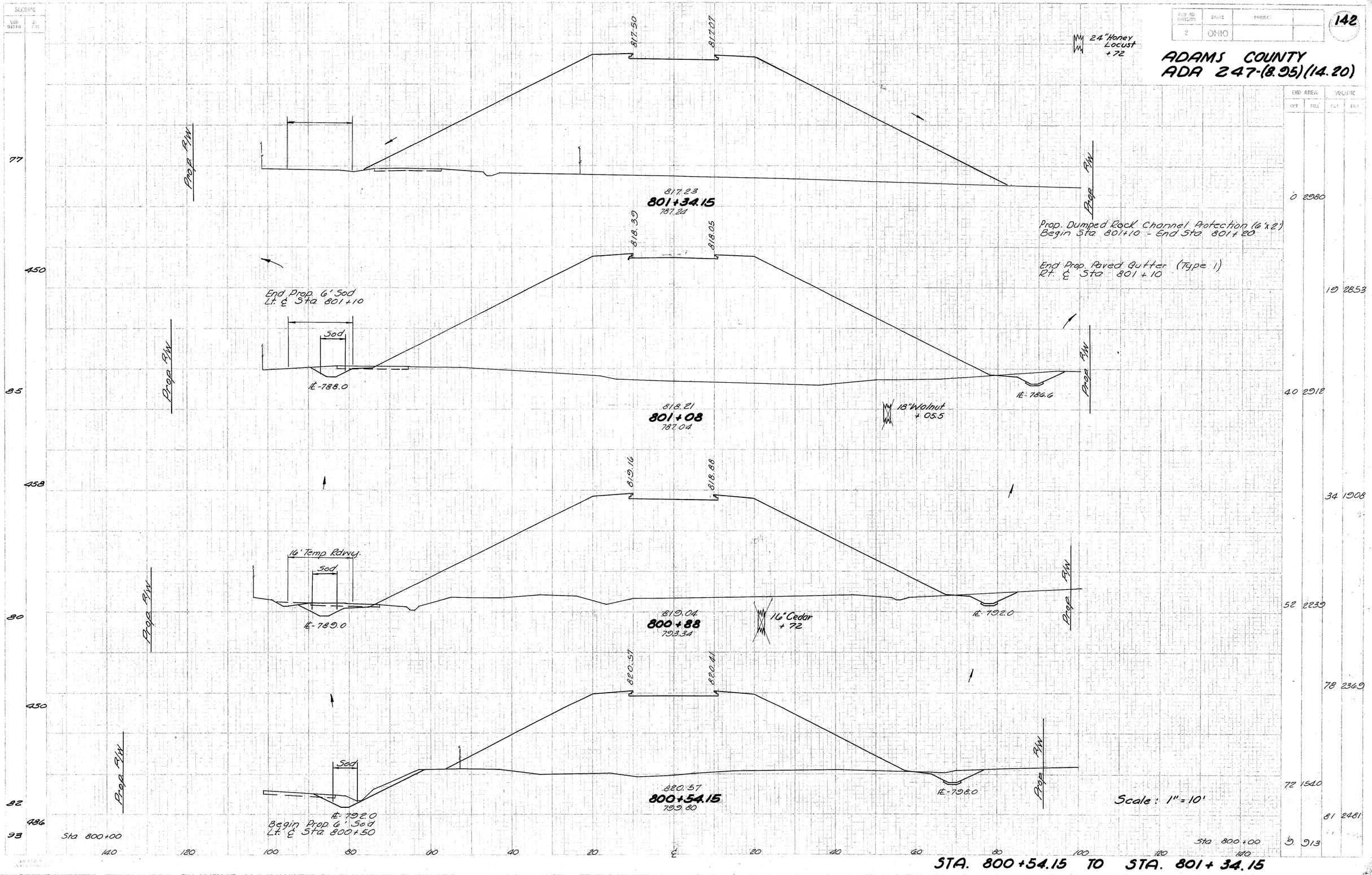
Sta 798+00

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
9	913		
		13	1338
		3	316
5	532		
		5	713
		0	59
2	238		
		156	221
168	0		
		481	0
351	0		

STA. 798+50 TO STA. 800+00

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

ADAMS COUNTY
ADA 247-(8.95)(14.20)



END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	2980		
		19	2853
40	2912		
		34	1908
52	2239		
		78	2369
72	1540		
		81	2481
9	913		

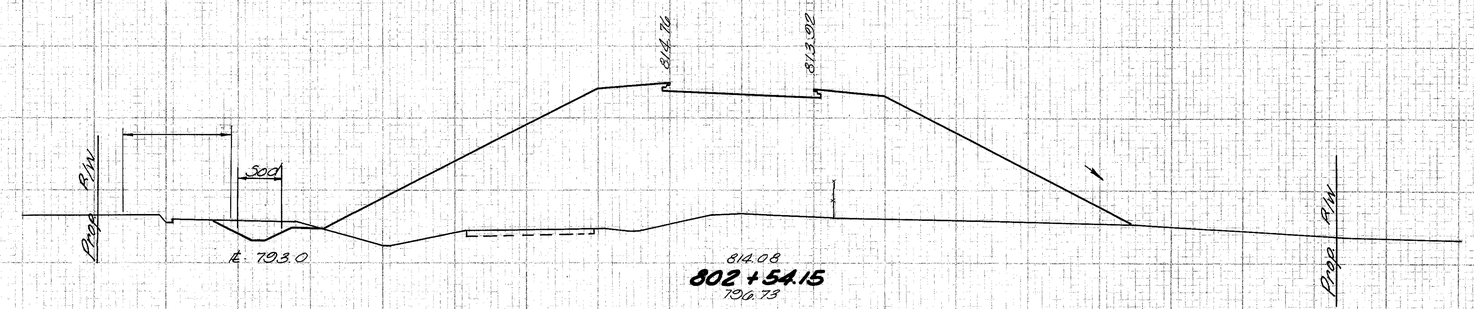
STA. 800+54.15 TO STA. 801+34.15

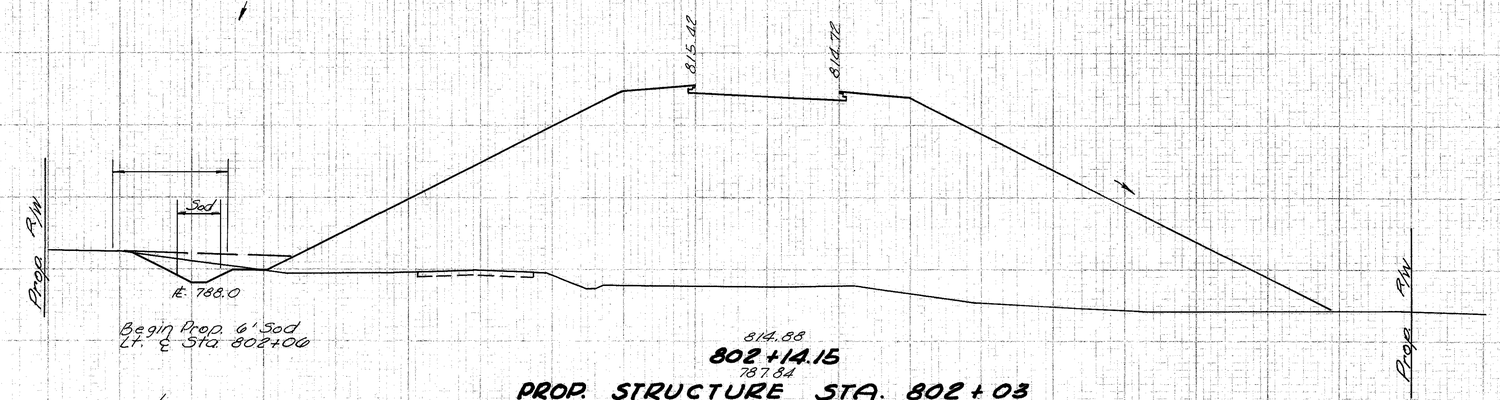
SHEET NO.	STATE	PROJECT	
2	OHIO		

143

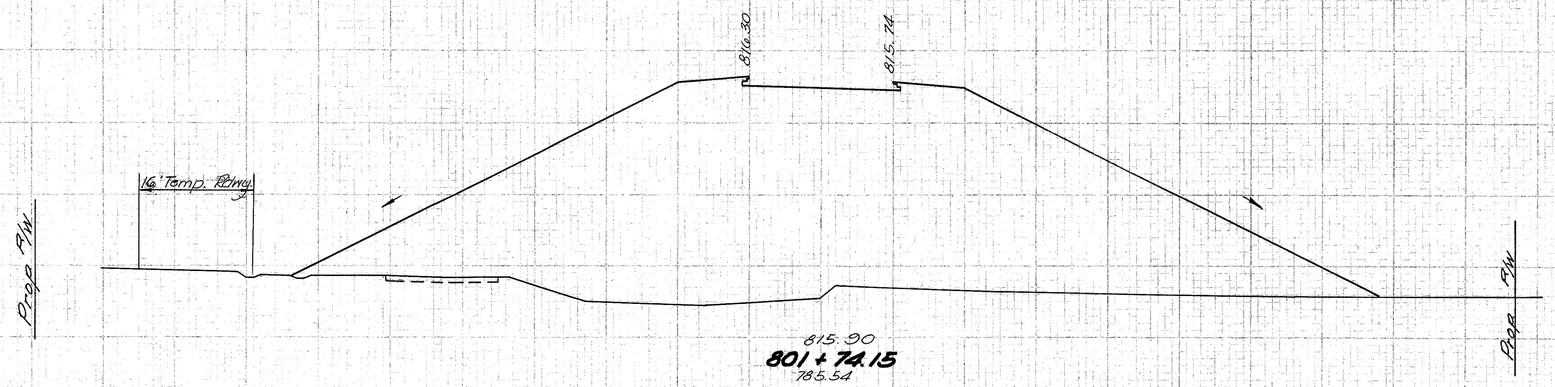
ADAMS COUNTY
ADA-247-(8.95)(14.20)

END AREA		VOLUME	
CUT	FILL	CUT	FILL
		20 1425	
		32 2944	
		24 2550	
		18 3971	
		0 2810	
		0 4289	
		0 2980	





PROP. STRUCTURE STA. 802+03
FOR DETAIL SEE SHEET Nº 174



Scale: 1" = 10'

Sta 801+34.15 — 120 100 80 60 40 20 ℄ 20 40 60 80 100 120 — Sta 801+34.15

STA. 801+74.15 TO STA. 802+54.15

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

144

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
49		496	0		
	233			478	66
35		20	71		
297		35	383		
71		17	342		
450		43	1033		
91		29	773		
411		42	1867		
57		20	1425		

End Prop. 6' Sod
Lt. ℄ Sta. 804+50

End Prop. 6' Sod
Rt. ℄ Sta. 804+50

Prop. R/W

Sod

814.44

813.60

℄ - 810.6

813.76
804+50
815.58

Begin Prop. 6' Sod
Rt. ℄ Sta. 804+00

End Prop. Paved Gutter (Type 1)
Rt. ℄ Sta. 804+00

813.35

813.11

℄ - 811.3

℄ - 810.0

℄ - 811.0

813.27
804+00
811.51

End Prop. Guard Rail
Rt. & Lt. ℄ Sta. 803+75

Begin Prop. 1'-6" I-3
Rt. ℄ Sta. 803+75
Outlet ℄ 809.5

813.86

813.02

Prop. R/W 80'

16' Temp. Rdwy.

℄ - 806.5

℄ - 805.5

813.18
803+50
809.83

814.15

813.31

Prop. R/W 79'

℄ - 799.0

℄ - 799.5

Begin Prop. Paved Gutter (Type 1)
Rt. ℄ Sta. 803+00

813.47
803+00
809.53

Sta. 802+54.15

Sta. 802+54.15

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

STA. 803+00 TO STA. 804+50

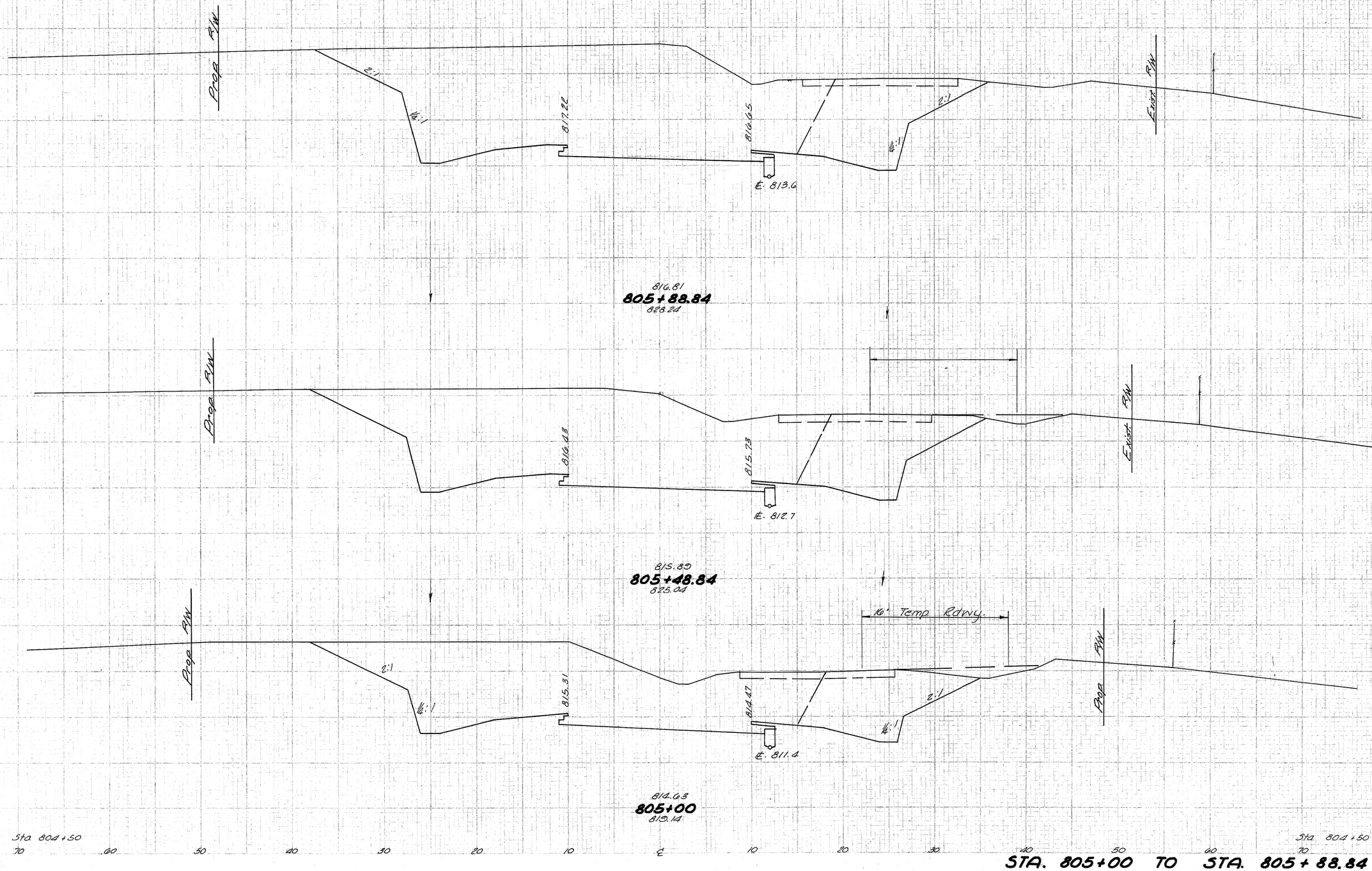
SEEDING	
END WIDTH	SQ. YDS.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

145

ADAMS COUNTY
ADA - 247-(8.95)(14.20)

END AREA		VOLUME	
CUT	FILL	CUT	FILL
637	0		
		882	0
553	0		
		896	0
438	0		
		865	0
496	0		

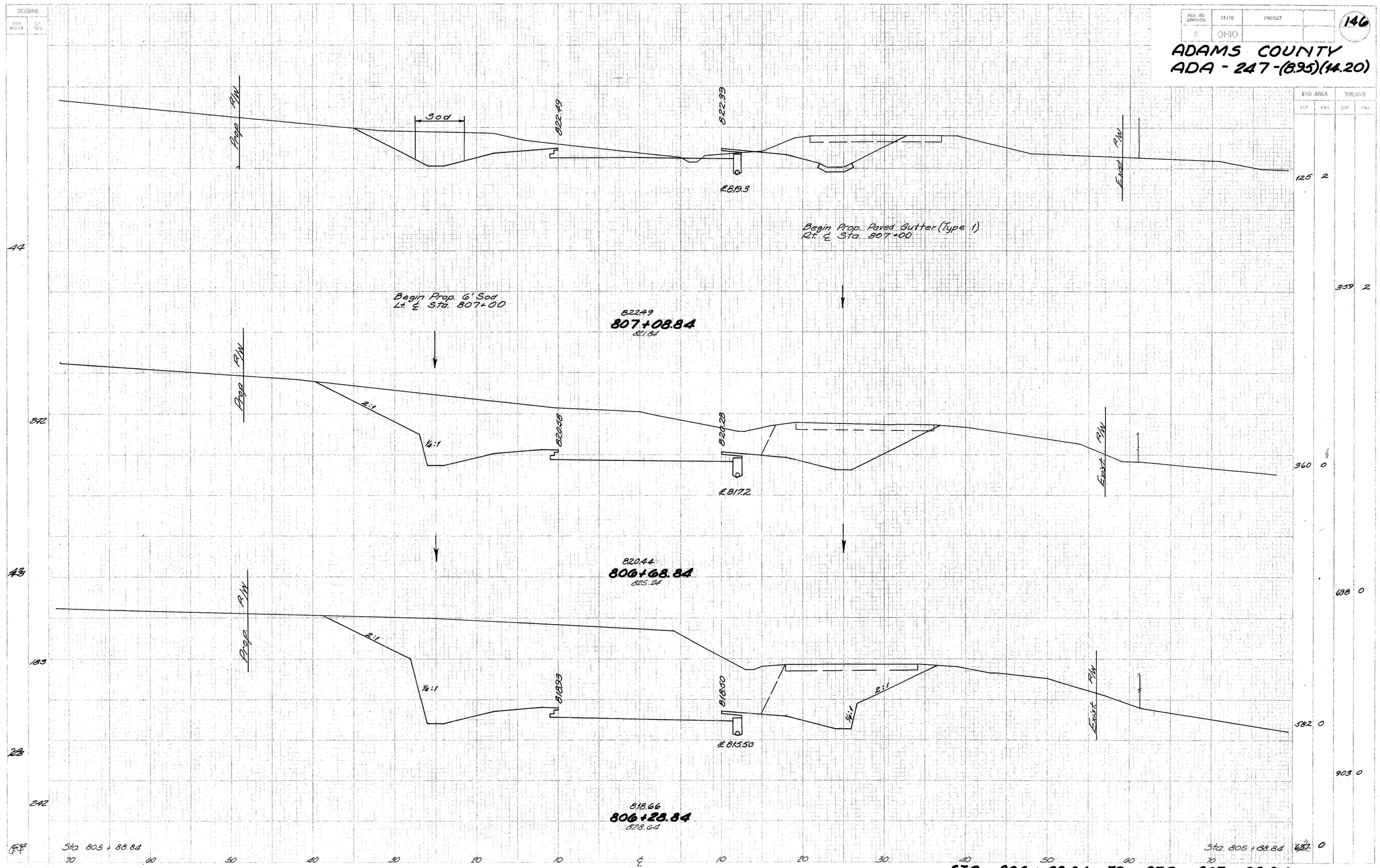


STA. 805+00 TO STA. 805+88.84

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

146

ADAMS COUNTY
ADA - 247 - (8.95)(14.20)



STA. 806 + 28.84 TO STA. 807 + 08.84

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

147

ADAMS COUNTY
ADA. - 247 - (8.95)(14.20)

SLEDING

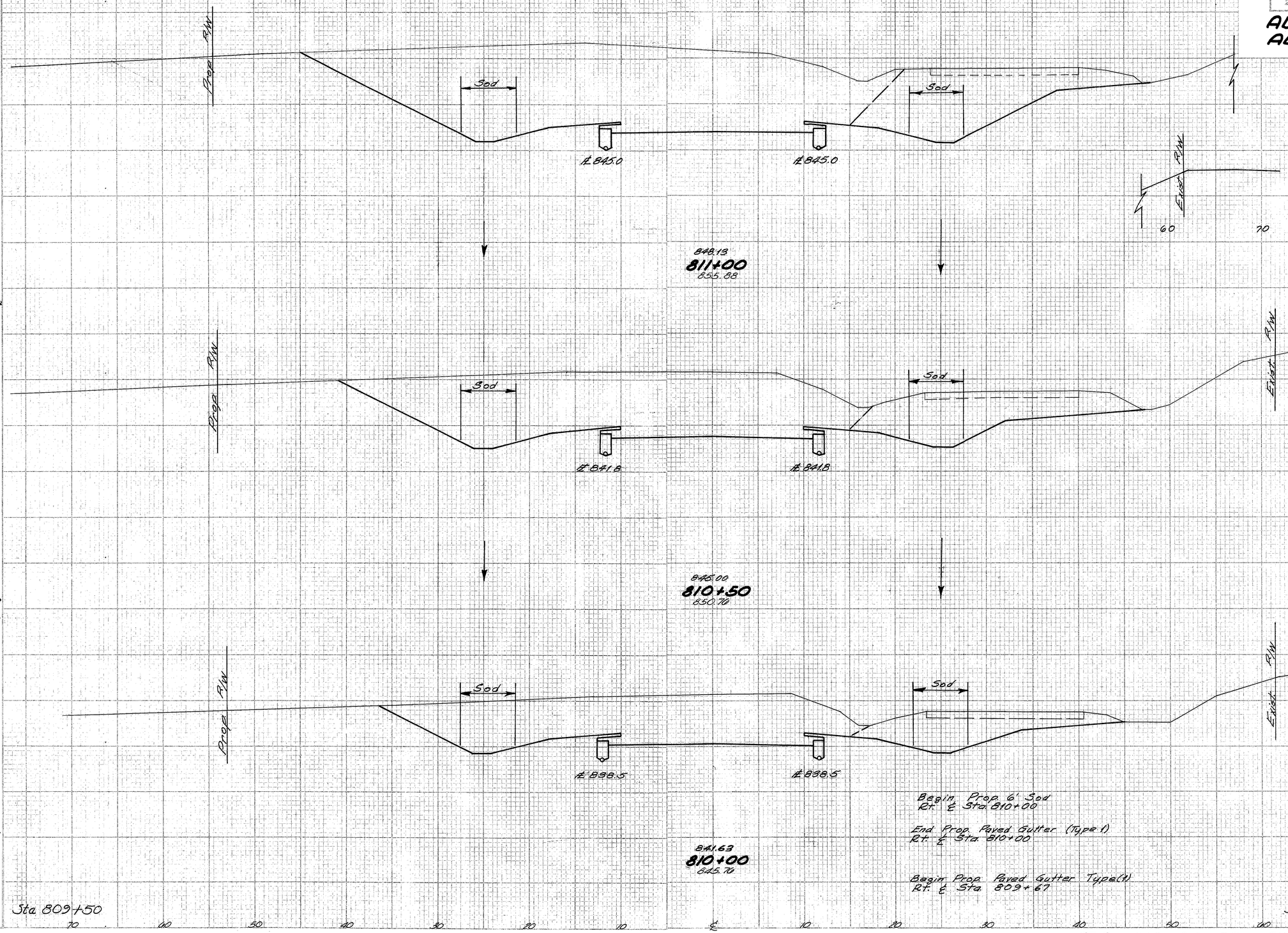
| LEFT SLOPE | GO. YDS. | | |

FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

148

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING	
END WIDTH	SQ. YDS.
65	944
59	308
52	267
44	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
624			
		1038	0
497	0		
		744	0
306	0		
		461	0
192	0		

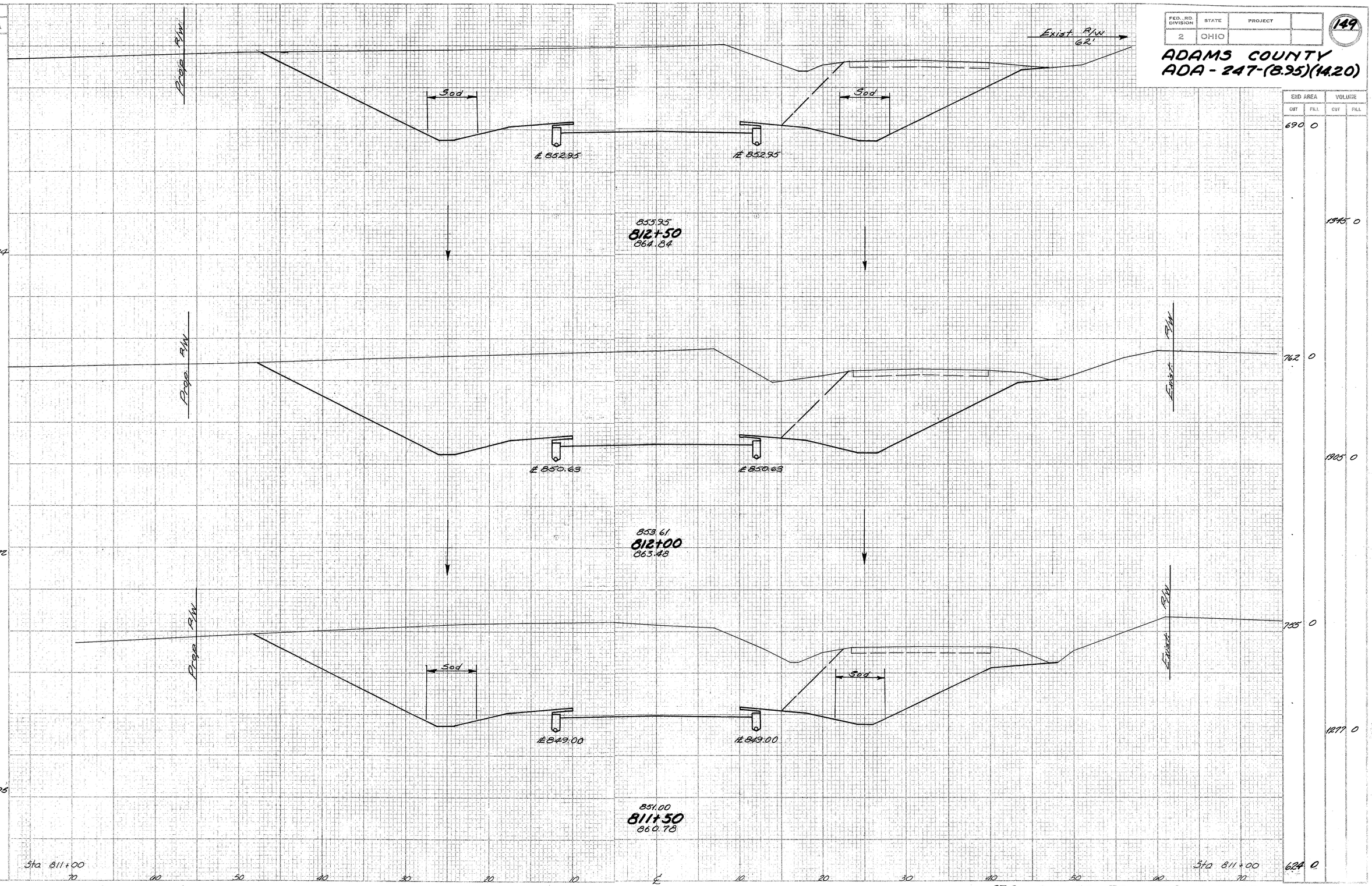
STA. 810+00 TO STA. 811+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

149

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING			END AREA		VOLUME	
END WIDTH	SQ. YDS.		CUT	FILL	CUT	FILL
68			690	0		
					1995	0
414						
			762	0		
					1925	0
81						
			755	0		
					1277	0
422						
70						
375						
			624	0		
65						



STA. 811+50 TO STA. 812+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

150

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING		END AREA		VOLUME	
END WIDTH	SQ YDS	CUT	FILL	CUT	FILL
86		67	0.0		
	433			189	76
70		137	13		
	375			419	24
65		315	13		
	375			962	12
70		724	0		
	383			1309	0
68		690	0		

Prop. R/W — Exist. R/W

862.68
814+50
860.64

857.7 — ℄ 859.68 — ℄ 859.68 — 858.5

End Prop. 6' Sod
Rt. ℄ Sta. 814+00

Sod

861.40
814+00
861.84

857.5 — ℄ 858.40 — ℄ 858.40

Sod

857.3 — ℄ 856.85 — ℄ 856.85

End Prop. 6' Sod
Lt. ℄ Sta. 813+50

859.85
813+50
863.74

Sod

℄ 855.03 — ℄ 855.03

858.03
813+00
865.64

Sta. 812+50 — Sta. 812+50

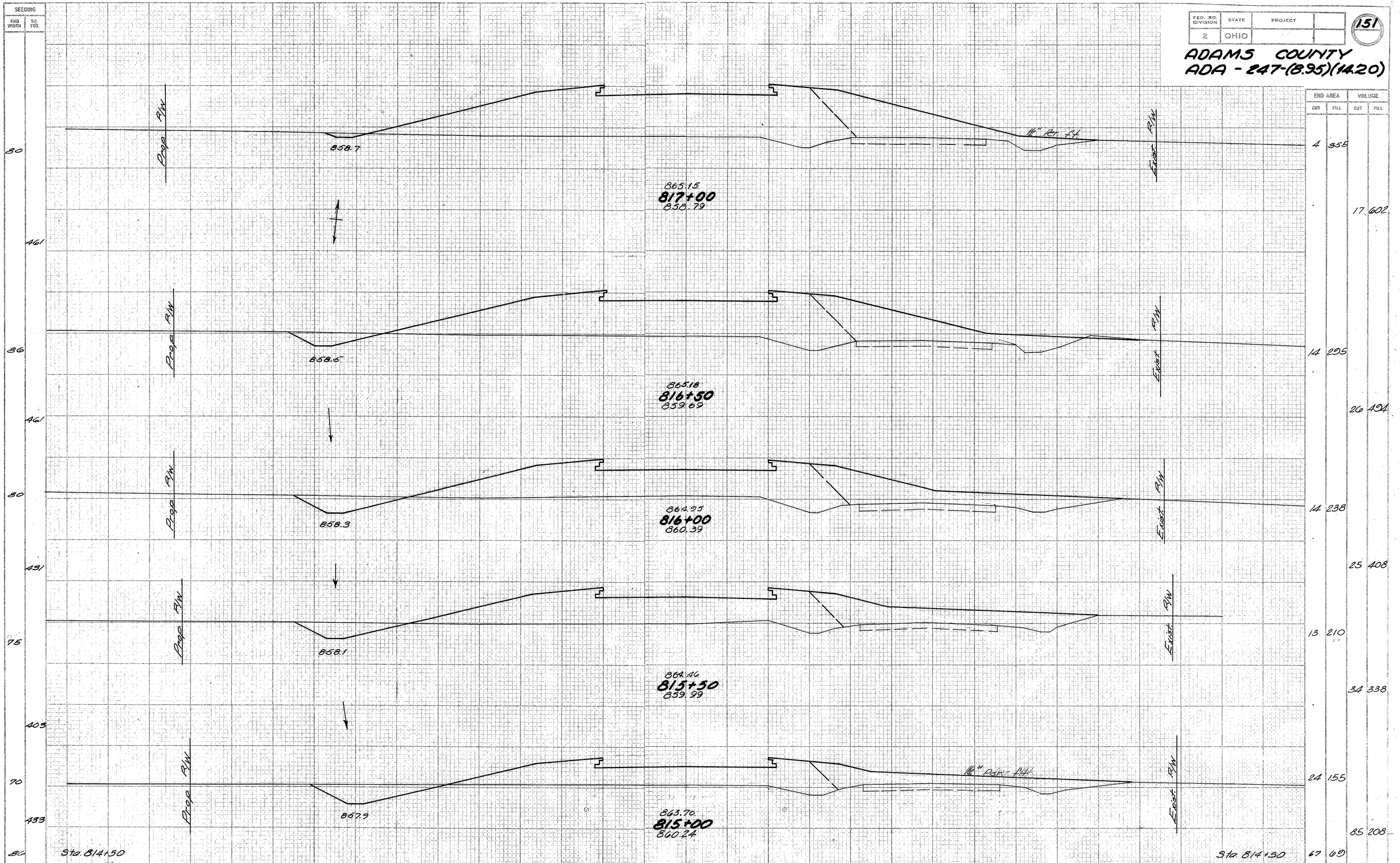
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

STA. 813+00 TO STA. 814+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

151

ADAMS COUNTY
ADA - 247-(8.95)(14.20)



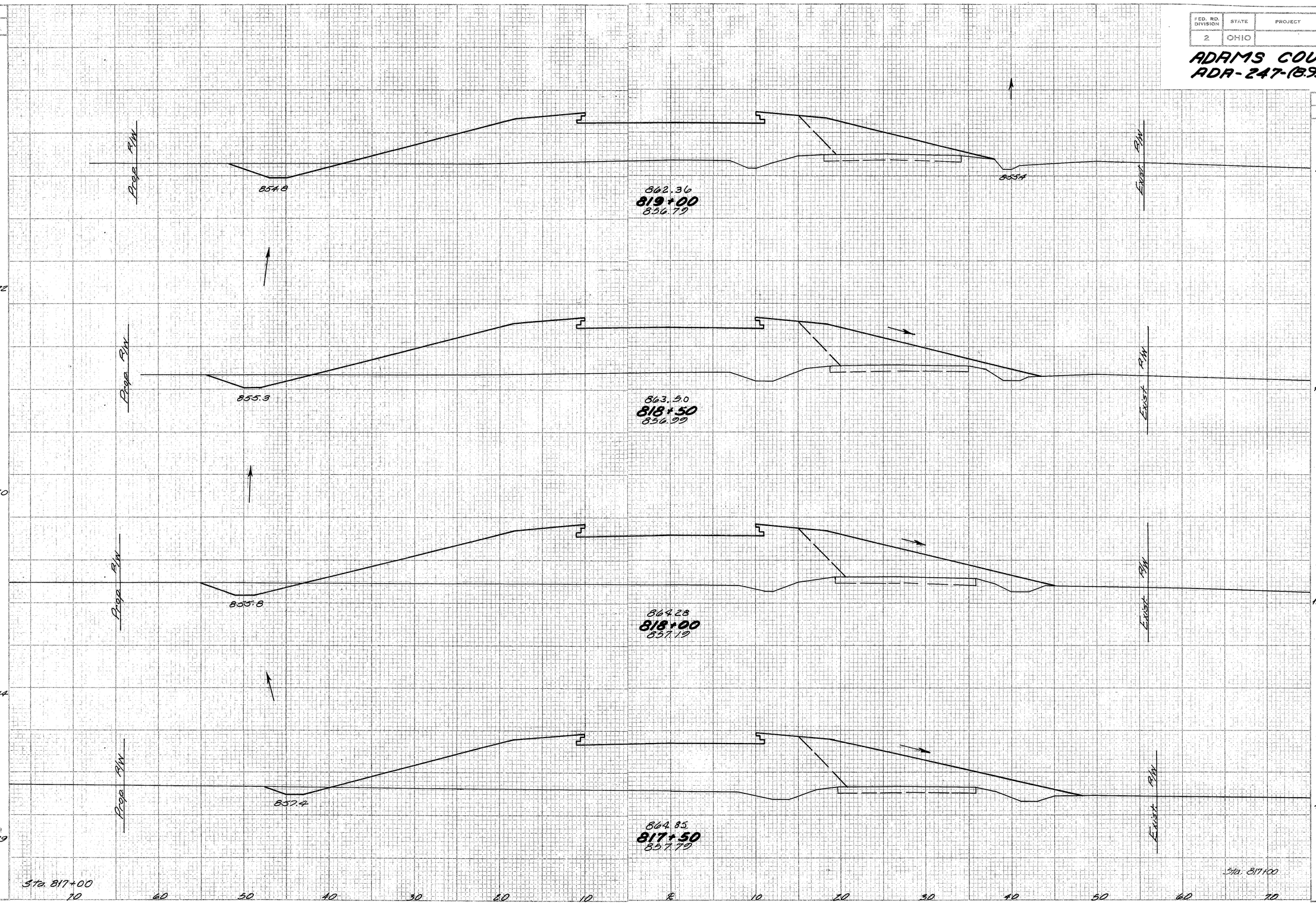
STA. 815+00 TO STA. 817+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

152

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
72					
	422	13	280		
				22	571
80		11	337		
	450			20	658
82		10	373		
	444			13	679
78		4	360		
	439			7	662
80		4	355		



STA. 817+50 TO STA. 819+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

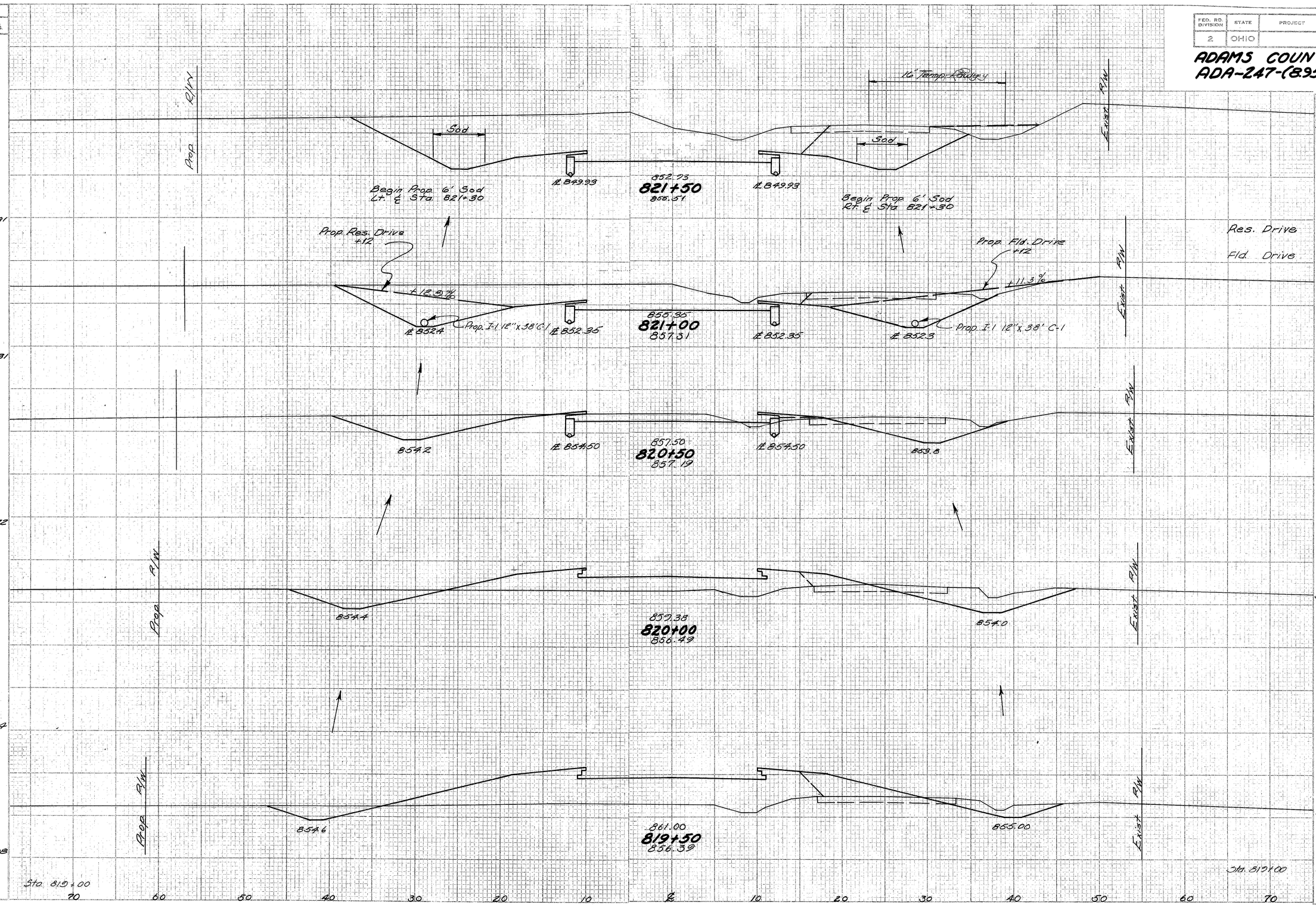
153

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
42	281	294	0	454	0
				0	35
				0	44
59	931	196	0	263	8
60	372	88	8	183	80
74	414	54	78	74	228
75	408	26	168	36	445
72		13	260		

Res. Drive

Fld. Drive



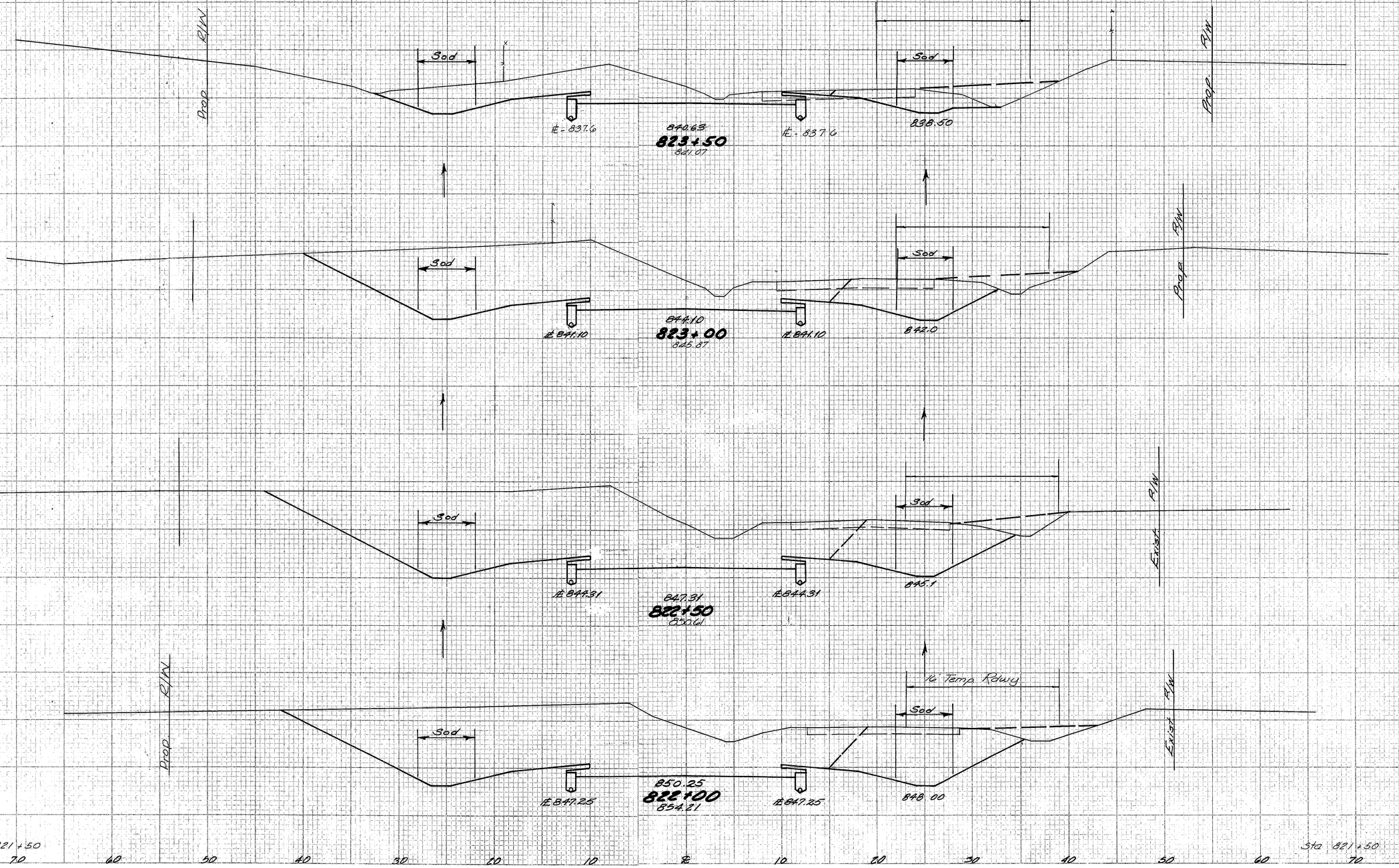
STA 819+50 TO STA. 821+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

154

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
34		122	0		
				391	0
211					
		302	0		
42					
				669	0
347					
49		420	0		
				766	0
269					
48		407	0		
				649	0
250					
42		294	0		



STA. 822+00 TO STA. 823+50

REG. NO. DIVISION	STATE	PROJECT	
2	OHIO		

155

ADAMS COUNTY
ADA - 247 - (8.95)(14.20)

END AREA		VOLUME	
CUT	FILL	CUT	FILL
358	0		
			424 1
100	1		
			0 48
		113	19
28	19		
		71	35
48	19		
		158	18
122	0		

Begin Prop. 6' Sod
Lt ℄ Sta. 825+50

Begin Prop. 6' Sod
Rt ℄ Sta. 825+50

PROP. STRUCTURE STA. 825+17
FOR DETAIL SEE SHEET Nº 177

End Prop. 6' Sod
Lt ℄ Sta. 825+53

Sod
6:1
Prop. R/W
℄-819.5
℄-821.93
829.23
825+50
828.07
℄ 821.93
Prop R/W

Prop. Fld. Drive
Sta. 825+25
+3.0%
Sod
5:1
℄-824.7
℄-825.93
828.93
825+00
829.22
℄ 825.93
℄-825.0
Prop R/W
Prop. Fld. Drive +25

End Prop. 6' Sod
Rt ℄ Sta. 824+92

Sod
℄-829.03
832.03
824+50
831.82
℄-829.03
Sod
℄-829.0
Prop R/W

Prop. R/W
Sod
℄-833.9
836.00
824+00
834.34
℄-833.9
16' Temp. Rdwy.
Sod
℄-833.0
Prop R/W

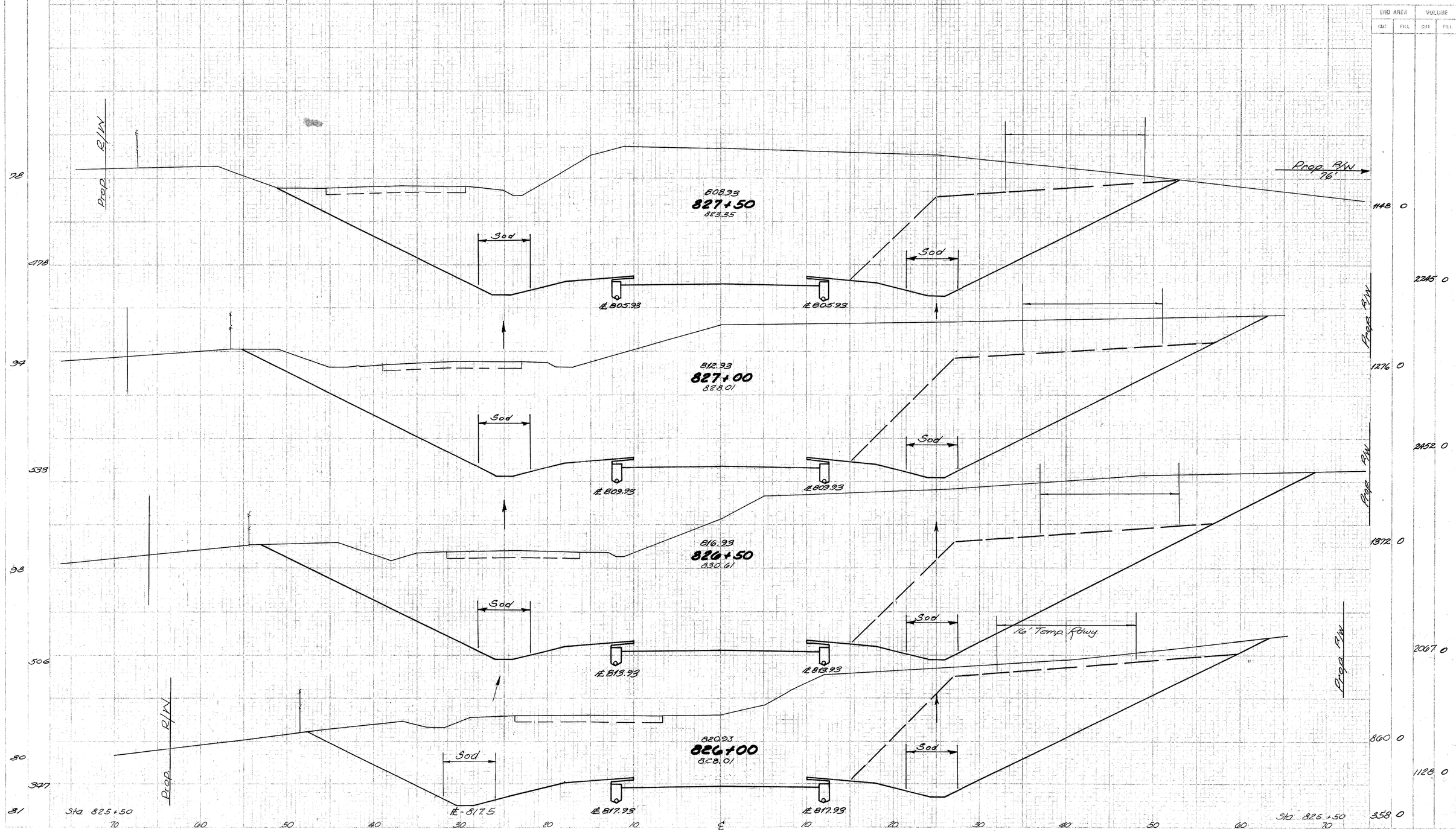
Sta. 823+50
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70
Sta. 823+50

STA. 824+00 TO STA. 825+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

156

ADAMS COUNTY
ADA-247-(8.95)(14.20)



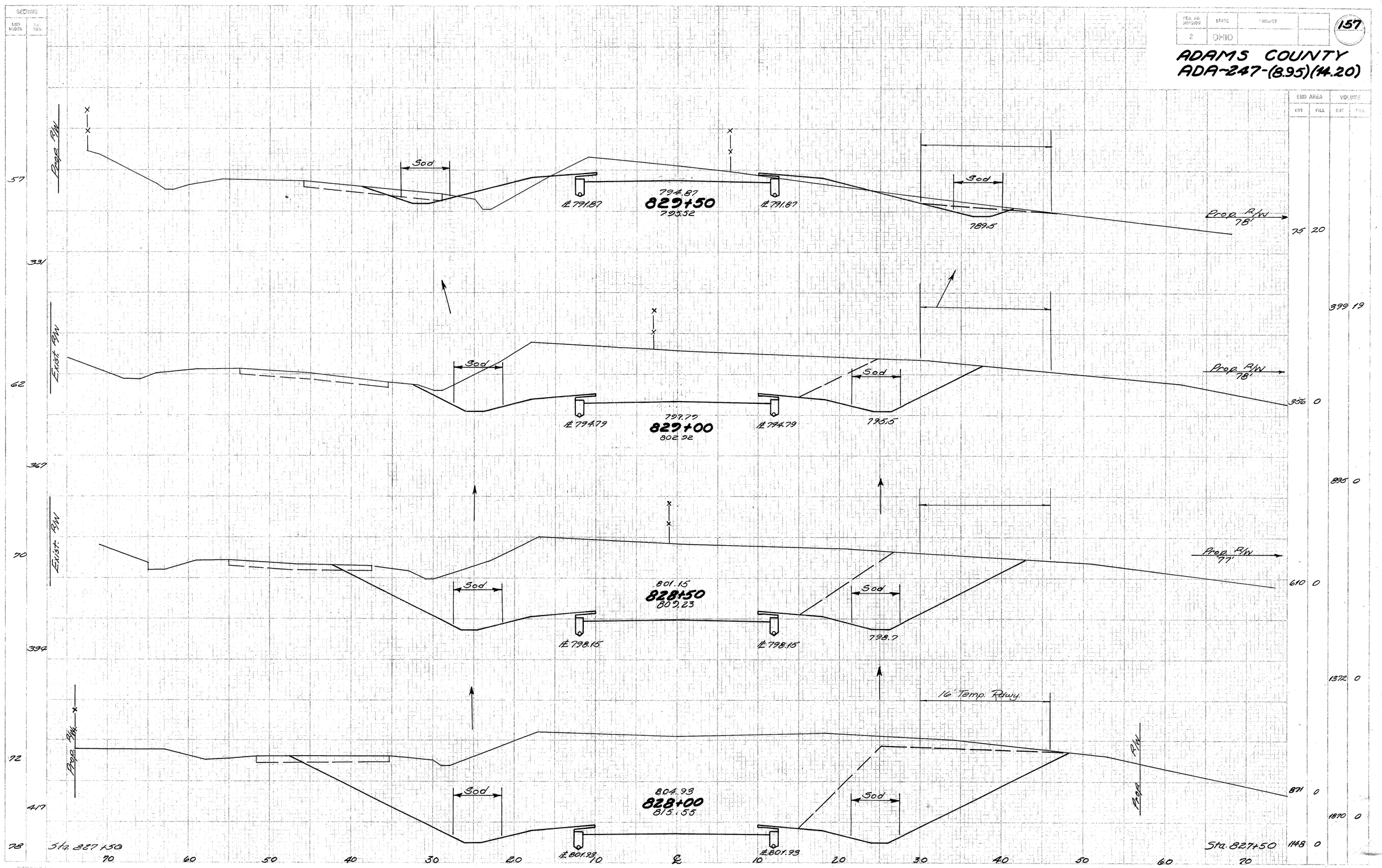
STA. 826+00 TO STA. 827+50

FED. RD DIVISION	STATE	PROJECT		157
2	OHIO			

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SECTIONS

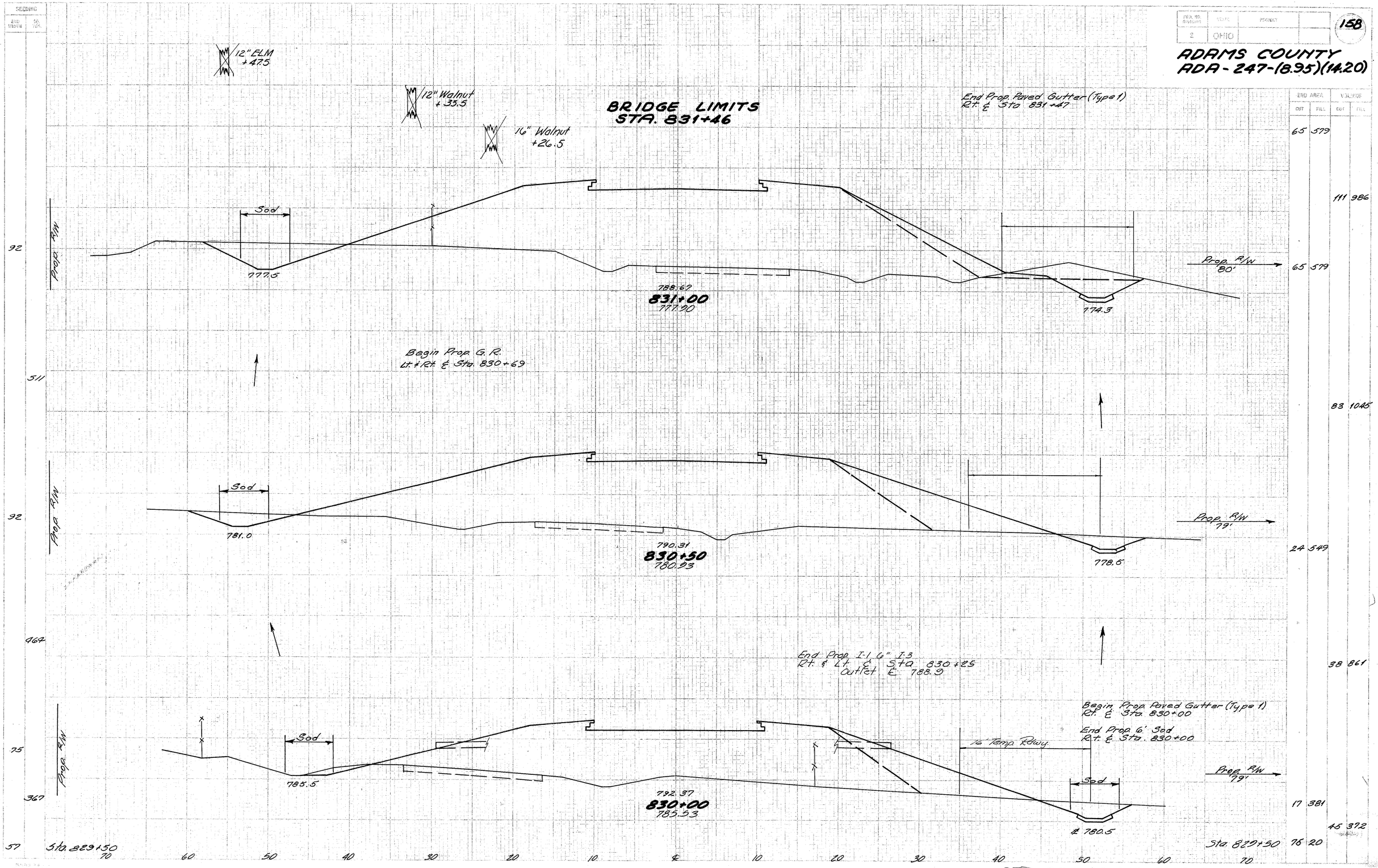
END AREA		VOLUME	
CUT	FILL	CUT	FILL



STA 828+00 TO STA 829+50

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

ADAMS COUNTY
ADA-247-(8.95)(14.20)



STA. 830+00 TO STA. 831+00

SECTIONS	
END WIDTH	CU. YDS.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

159

ADAMS COUNTY
ADA-247-(8.95)(14.20)

END AREA		VOLUME	
CUT	FILL	CUT	FILL

20" Sycamore
+ 30

Prop. R/W
78'

Sod

774.0

787.47
831+50
775.67

Prop. R/W
80'

Limit of Roby. Quantities

87
497
92

Sta. 831+00

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

Sta. 831+00

23 709
82 1192
65 579

STA. 831+50

STATE: OHIO

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING

END WIDTH	SQ. YDS.
53	
353	
84	
211	
12	33
0	
0	
123	
92	

Seeding & Prof. Item L-9 Sta. 832+45 to Sta. 835+00 15,627.38 Lb.

End Prop. 6' Sod Lt. & Sta. 833+55

Prop. R/W 105'

Sod

780.0

℄ 782.8

℄ 782.8

783.5

Prop. R/W 172'

786.95
833+50
782.57

Begin Prop. I-1 6" I-3 Rt. & Lt. ℄ Sta. 833+25 Outlet ℄ 782.0

End Prop. Paved Gutter (Type 1) Rt. ℄ Sta. 833+50

Prop. R/W 80'

Sod

775.5

Prop. R/W 189'

779.0

786.43
833+00
778.57

Begin Prop. 6' Sod Lt. ℄ Sta. 832+67

End Prop. G.R. Lt. ℄ Sta. 832+89

BRIDGE LIMITS STA. 832+62

End Prop. Guard Rail Rt. ℄ Sta. 832+76

Sta. 832+62

Excavation 39,335 C.Y.
Embankment 3,714 C.Y.

END AREA		VOLUME	
CUT	FILL	CUT	FILL
34	133		
			51 497
21	404		
			30 568
21	404		
			7 127
			0 0
			0 0
			11 328
23	709		

Prop. R/W 80'

Sta. 832+45

Prop. R/W 279'

℄ - 775.0
This Section for Detail only

Sta 832+45 0 0

832+50
777.47

End Prop. 6' Sod Lt. ℄ Sta. 832+38

Prop. R/W 79'

Sod

770.5

Prop. R/W 205'

Sta. 831+75

Sta 831+75 0 0

Begin Prop. Paved Gutter (Type 1) Rt. ℄ Sta. 831+95

832+00
774.07

Sta. 831+50

Sta. 831+50 23 709

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

STA. 832+00 TO STA. 833+50

FED. NO. DIVISION	STATE	PROJECT		161
2	OHIO			

ADAMS COUNTY
ADA - 247-(8.95)(14.20)

SEEDING		END AREA		VOLUME	
END WIDTH	Q YDS	CUT	FILL	CUT	FILL
97					
		911	0		
494				1710	0
81		936	0		
419				1335	0
70		722	0		
350				1110	0
56		476	0		
319		719	0		
59		2461	216		
147		300	0		
0		438	0		
164		173	0		
53		192	123		
		34	193		

Sta. 833+50

2652 Approach Rt. & Lt. Sta. 833+89

Prop. R/W 80.5'

Prop R/W

Sod

℄ 796.07

799.07
836+50
808.32

℄ 796.07

Sod

Prop R/W

Prop R/W

Sod

℄ 792.97

795.97
836+00
805.32

℄ 792.97

Sod

Prop R/W

Prop R/W

Sod

℄ 790.30

793.31
835+50
801.29

℄ 790.30

Sod

Prop R/W

Prop R/W

Sod

℄ 788.07

791.07
835+00
796.03

℄ 788.07

Sod

Prop R/W
198'

Sod

℄ 785.0

Begin Prop. 6' Sod
Lt. ℄ Sta. 834+17

Edwg. Quantities

Limit of

Prop R/W
152'

Prop. County Rd.
Lt. ℄ Sta. 833+89

℄ 787.89

℄ 784.89

Prop. I-1 12" X 66' B-1
℄ - 782.0

789.27
834+50
791.87

℄ 786.27

℄ 786.27

Sod

℄ 786.1

Begin Prop. 6' Sod
Rt. ℄ Sta. 834+13

Approach Rt. & Lt. ℄
Sta. 833+89

Edwg. Quantities

Limit of

Prop R/W
155'

Prop. County Rd.
Rt. ℄ Sta. 833+89

787.89
834+00
788.07

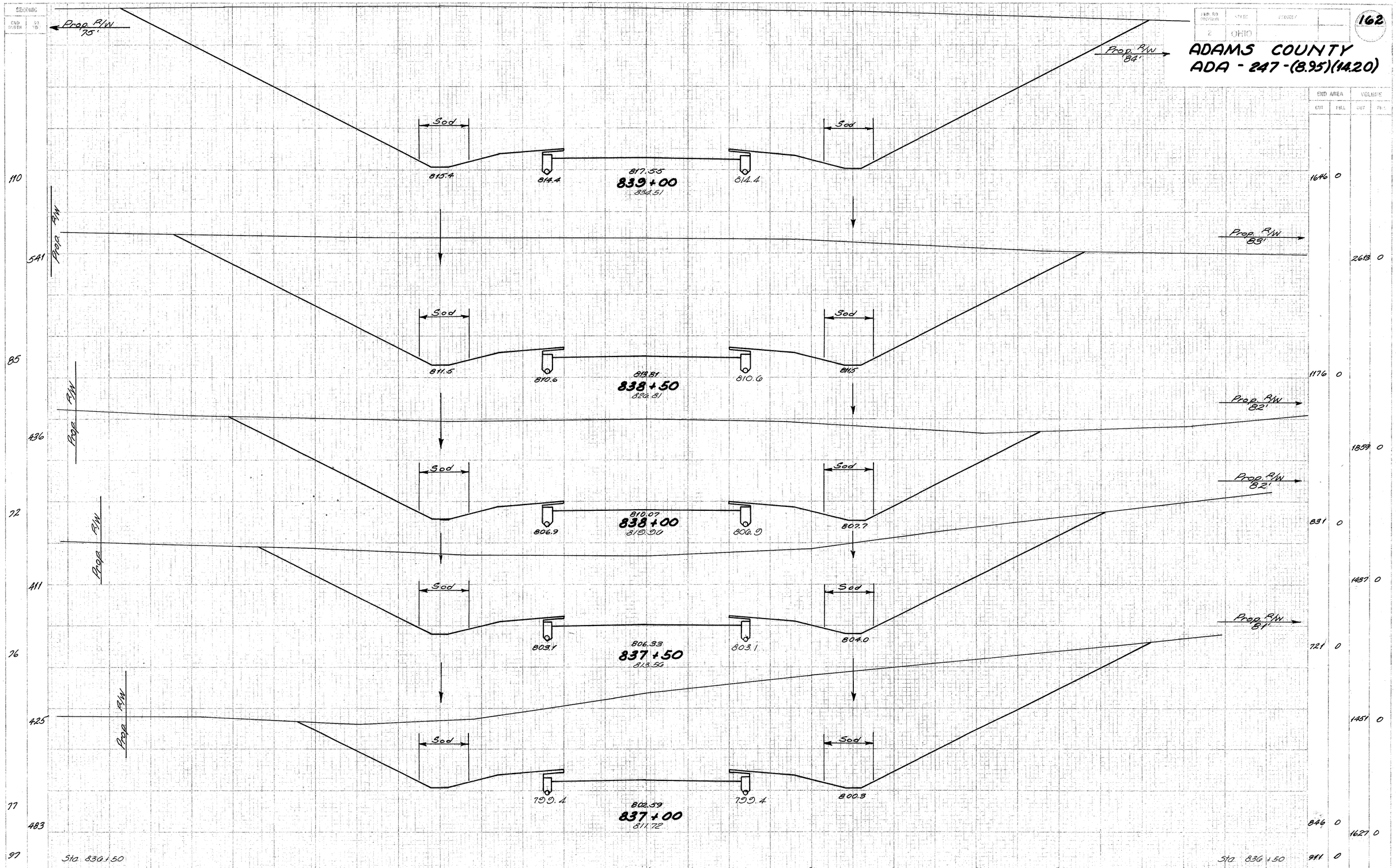
Sta. 833+50

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

STA. 834+00 TO STA. 836+50

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

ADAMS COUNTY
ADA - 247 - (8.95)(14.20)

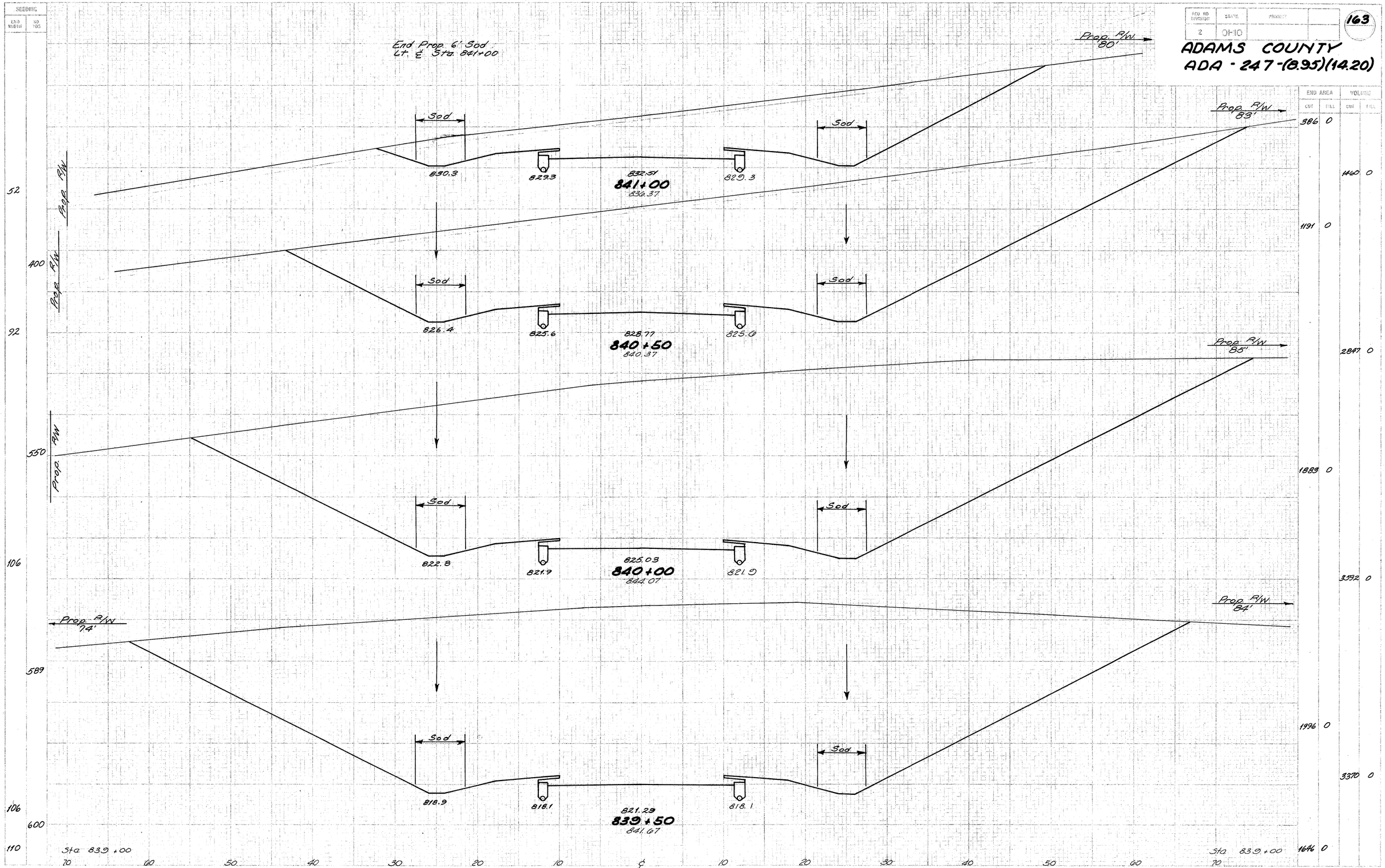


STA. 837+00 TO STA. 839+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

163

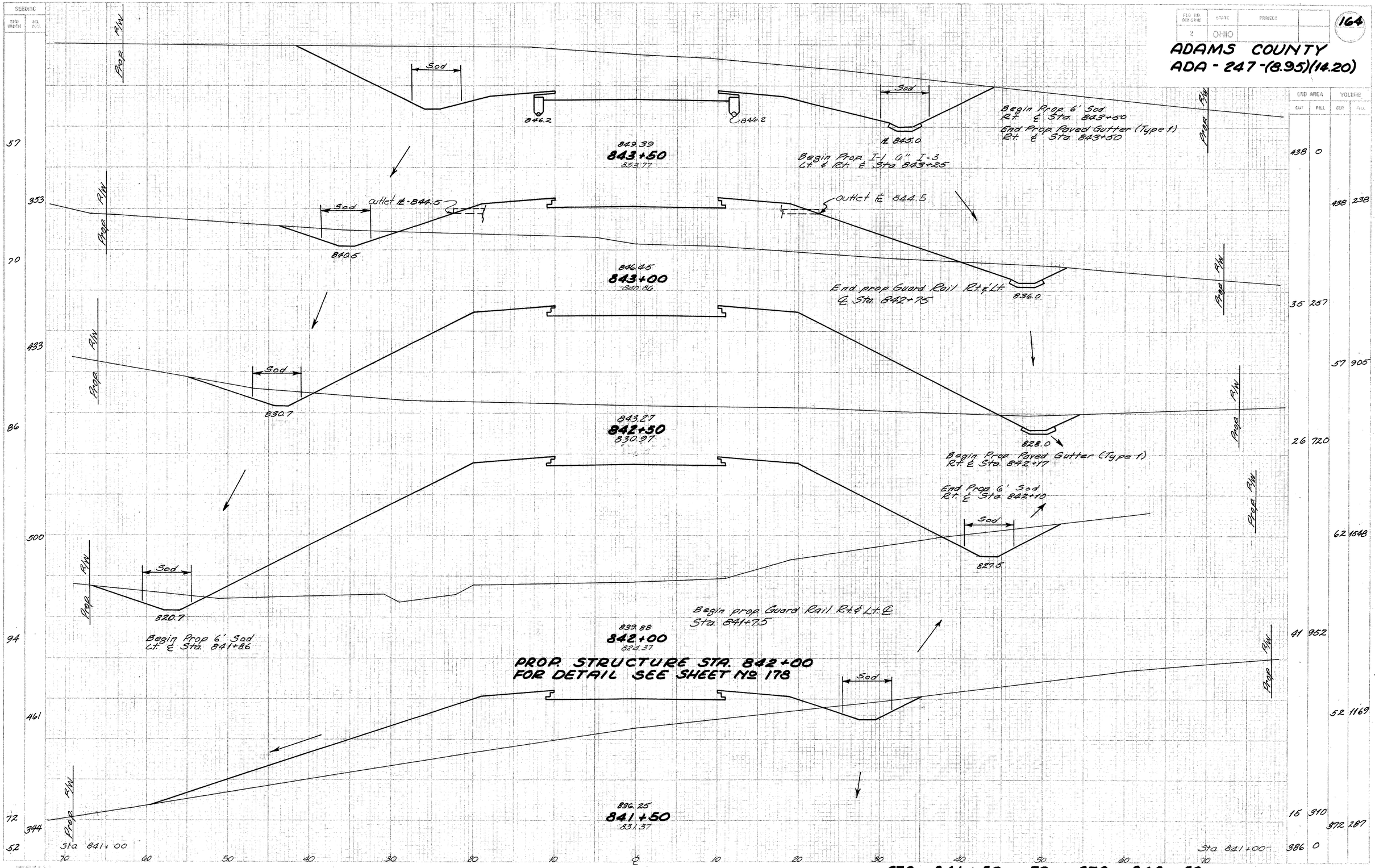
ADAMS COUNTY
ADA - 247 - (8.95)(14.20)



STA. 839+50 TO STA. 841+00

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

ADAMS COUNTY
ADA - 247 - (8.95)(14.20)

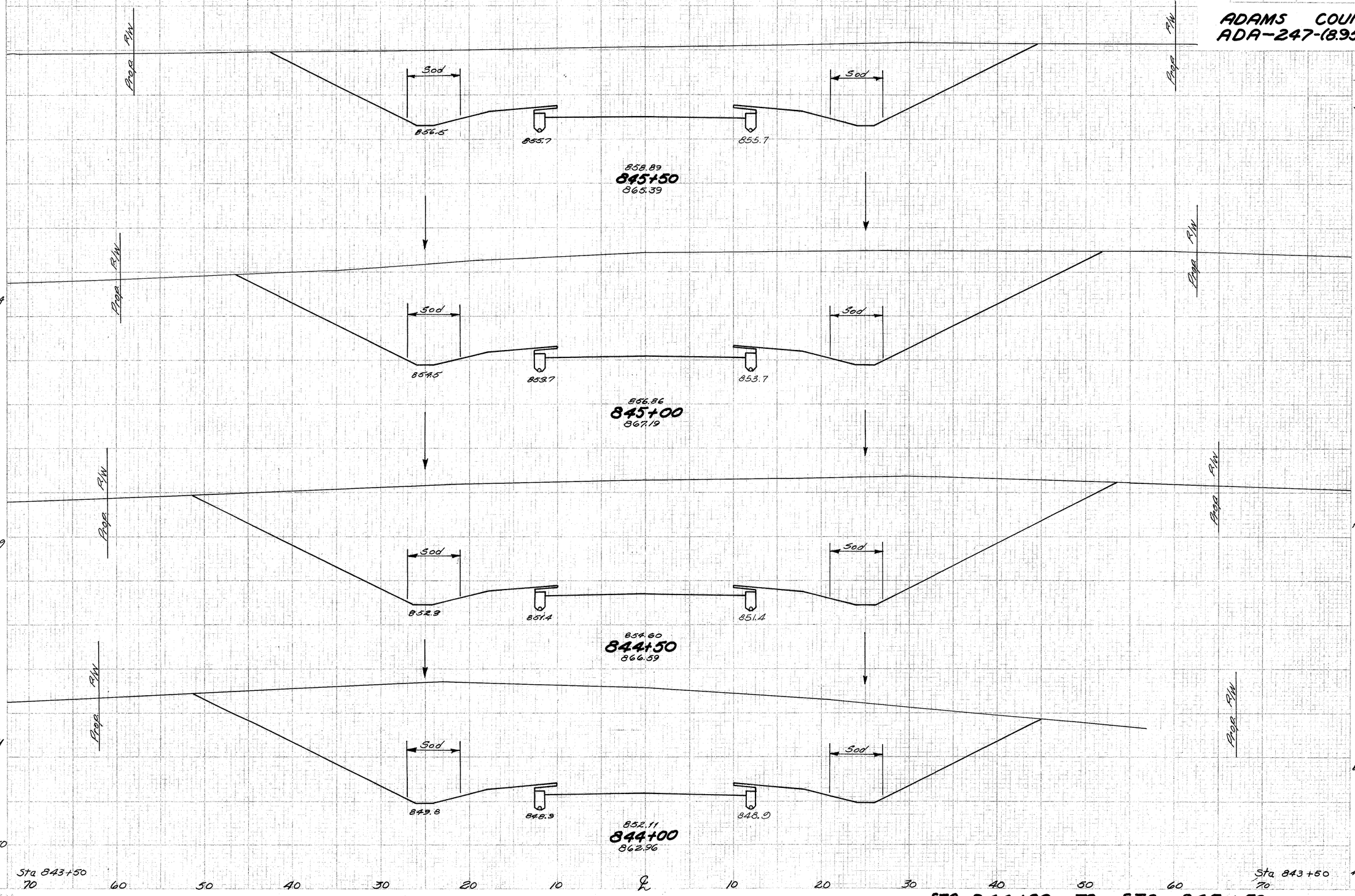


STA. 841 + 50 TO STA. 843 + 50

FED. RD. DIVISION	STATE	PROJECT		165
4	OHIO			

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
		571	0		
59				1835	0
	364	870	0		
72				1780	0
	369	1052	0		
79				1795	0
	411	886	0	1226	0
69					
	350	498	0		
57					



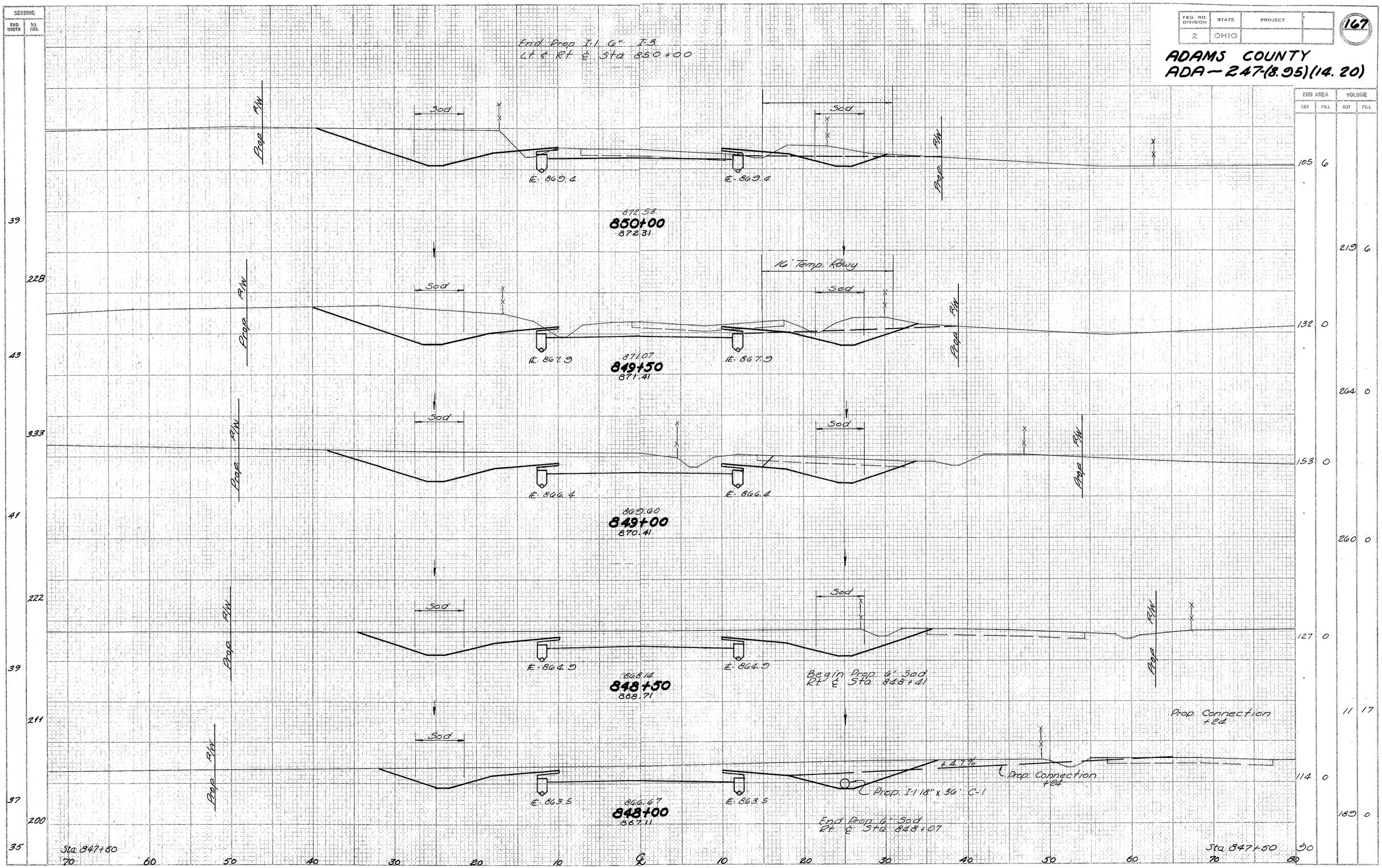
STA. 844+00 TO STA. 845+50

| SEGMENT | | |

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

167

ADAMS COUNTY
ADA-247-(8.95)(14.20)



STA 848+00 TO STA 850+00

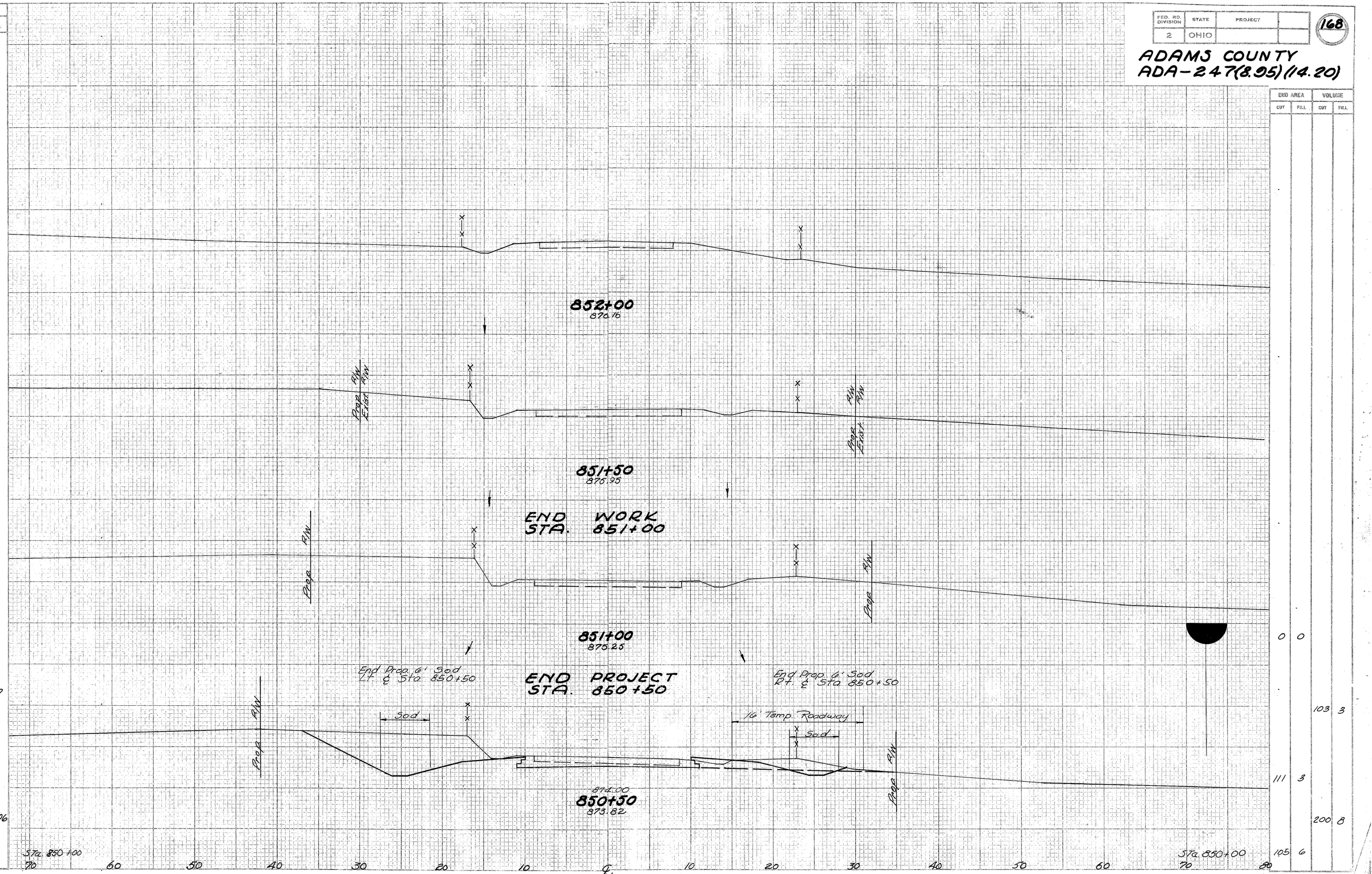
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

168

ADAMS COUNTY
ADA-247(8.95)(14.20)

SEEDING	
END WIDTH	SQ. YDS.
0	
97	
35	
206	
39	

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0		
		103	3
		111	3
		200	8
		105	6

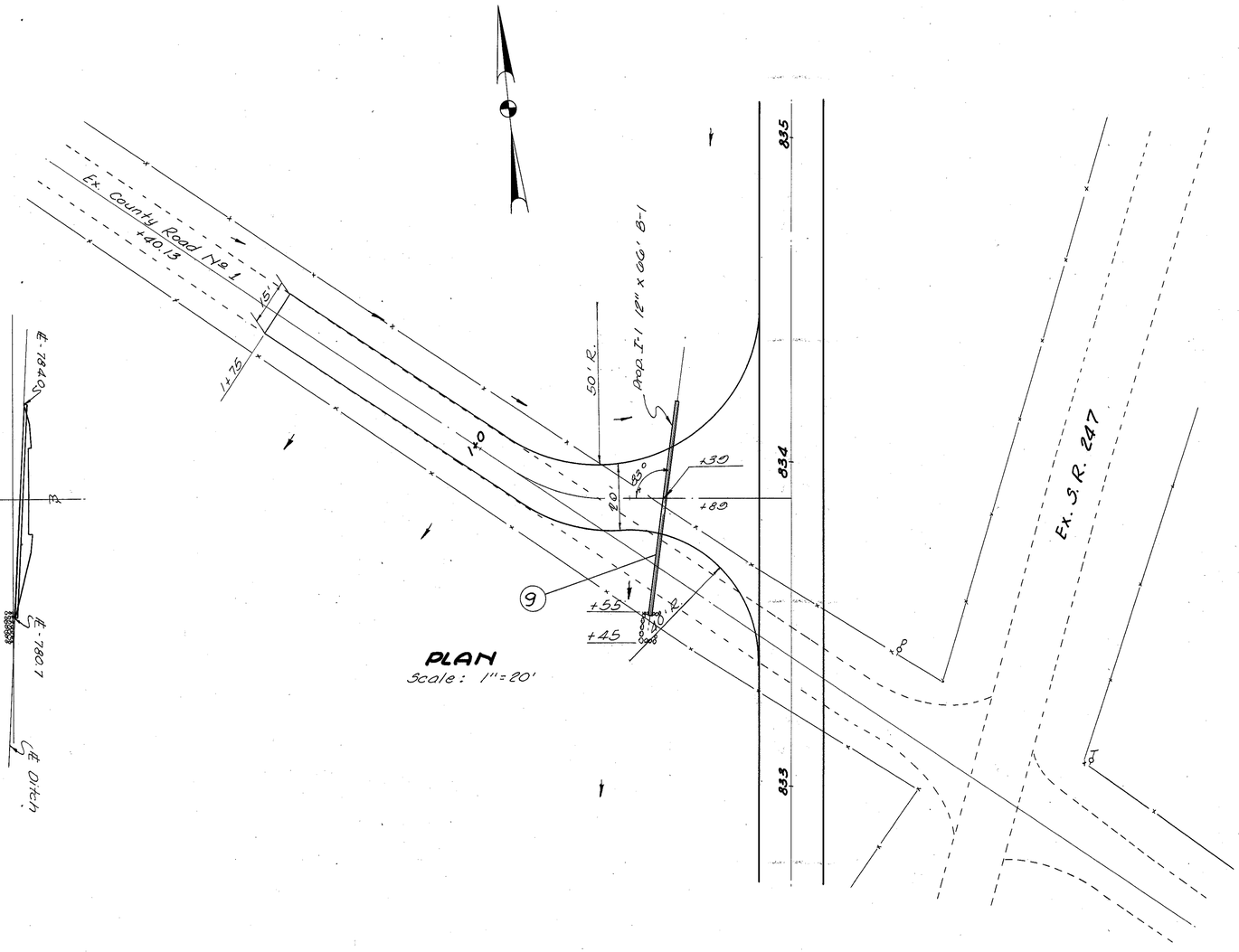


STA. 850+50 TO STA. 852+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

164

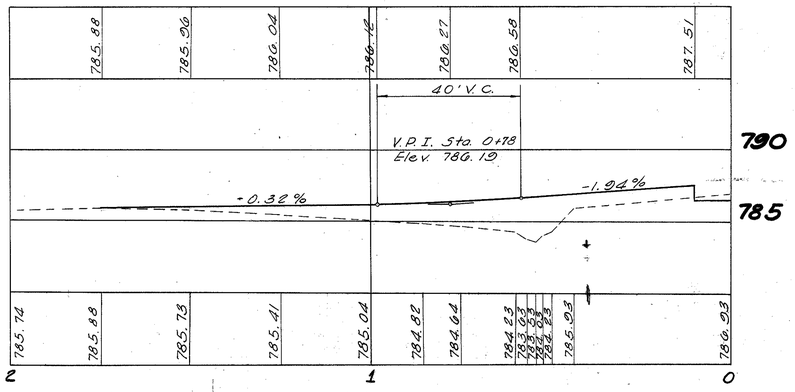
ADAMS COUNTY
ADA - 247 (8.95)(14.20)



PLAN
Scale: 1" = 20'

ESTIMATED QUANTITIES

T-35	1½" Asphaltic Concrete Surface Course	372.10 Sq. Yd.
B-35	1¾" Asphaltic Concrete Leveling Course	372.10 Sq. Yd.
T-30	Bituminous Prime Coat	414.54 Sq. Yd.
B-10	6" Aggregate Base Course	414.54 Sq. Yd.
I-22	6" Subbase	499.42 Sq. Yd.
I-1	12" B-1, Sec. M-6.5(b), M-6.6(a) or M-6.8(b)	66 Lin. Ft.
I-10	Dumped Rock Channel Protection	5.5 C.Y.



PROFILE
Horizontal: 1" = 20'
Vertical: 1" = 5'

9

APPROACH LT. ℄ STA. 833 + 89

FED. HWY. DIVISION	STATE	PROJECT		170
2	OHIO			

ADAMS COUNTY
ADA - 247-(8.95)(14.20)

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
		0	0		
0				28	21
	114				
		30	22		
41				53	65
	247				
		28	48		
48				27	59
	140				
		30	80		
53				31	58
	133				
		38	44		
43					

2+00
786.71

END WORK
STA. 1+75

℄ - 784.5

785.95
1+50
785.73

℄ - 784.4

786.11
1+00
785.04

℄ - 784.3

786.31
0+75
784.64

℄ - 784.2

786.73
0+50
784.83

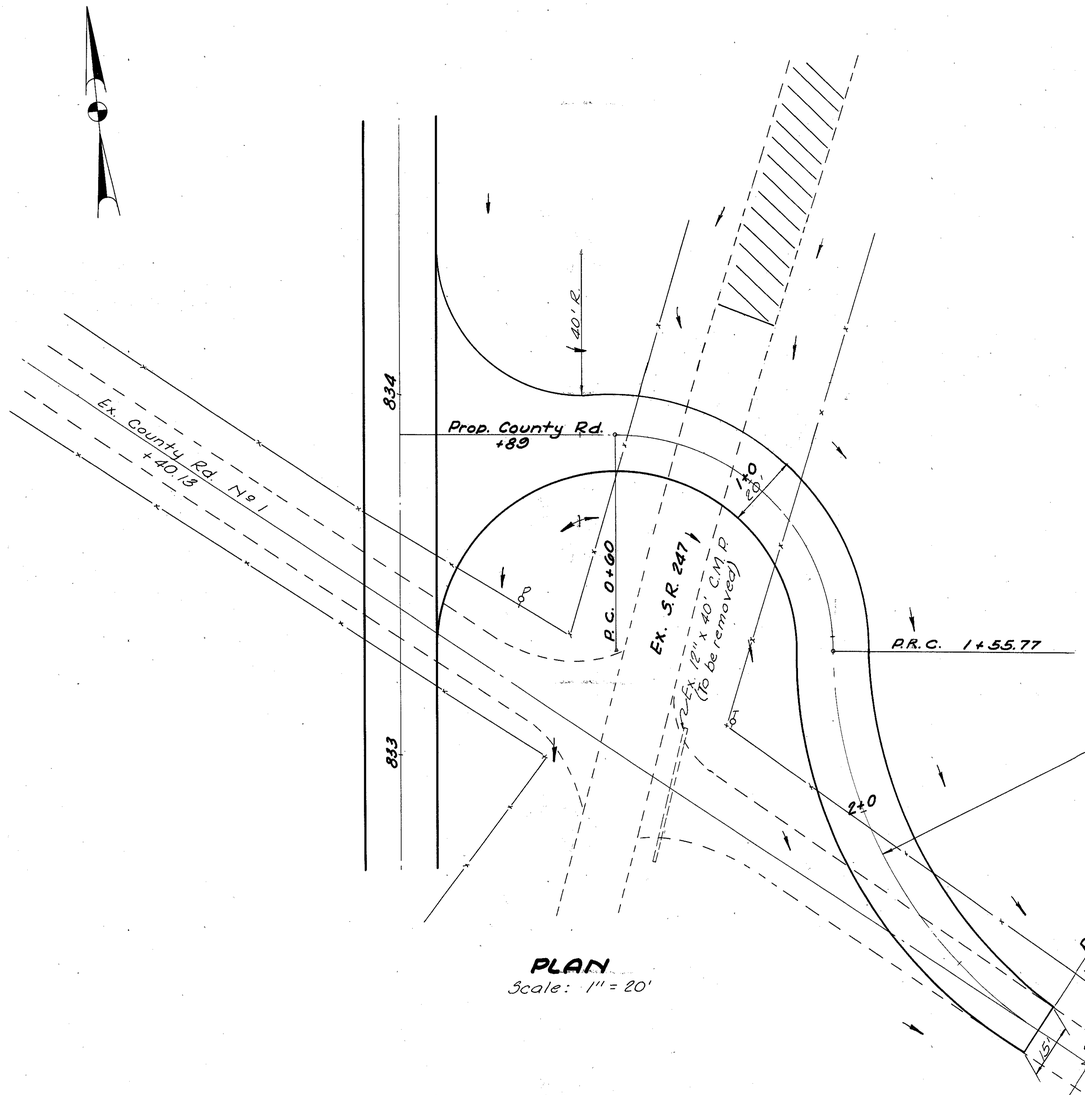
70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

APPROACH LT. ℄ STA. 833+89

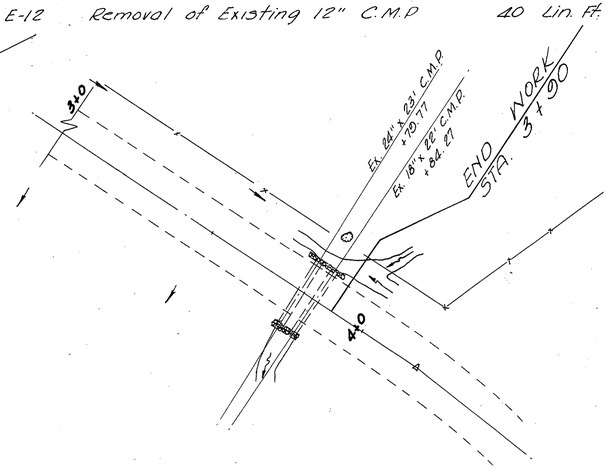
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

171

ADAMS COUNTY
ADA - 247 (8.95)(14.20)

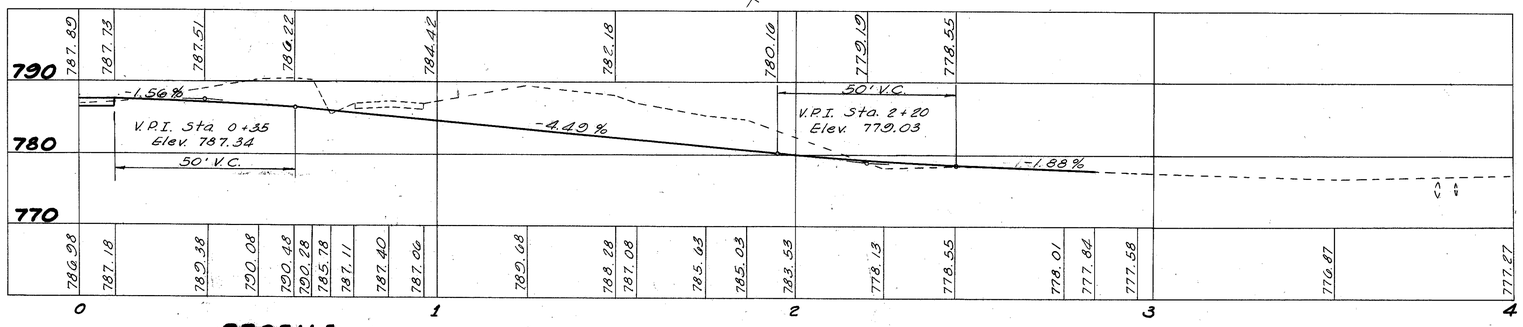


PLAN
Scale: 1" = 20'



ESTIMATED QUANTITIES

T-35	1¼" Asphaltic Concrete Surface Course	703.11 Sq. Yd.
B-35	1¾" Asphaltic Concrete Leveling Course	703.11 Sq. Yd.
T-30	Bituminous Prime Coat	767.66 Sq. Yd.
B-19	6" Aggregate Base Course	767.66 Sq. Yd.
I-22	6" Subbase	806.77 Sq. Yd.
E-12	Removal of Existing 12" C.M.P.	40 Lin. Ft.



PROFILE
Horizontal: 1" = 20'
Vertical: 1" = 10'

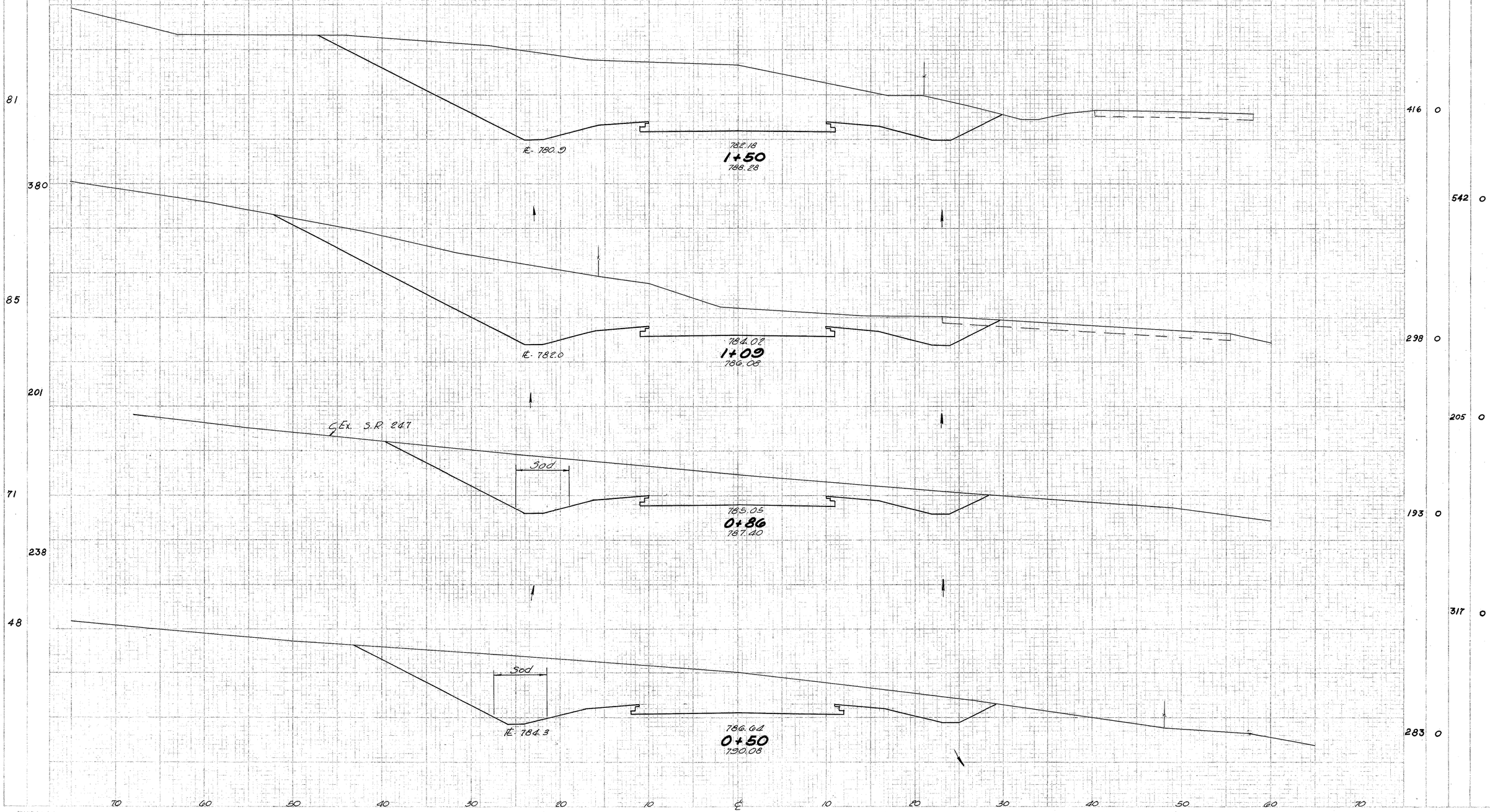
APPROACH RT. ℄ STA. 833+89

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

172

ADAMS COUNTY
ADA - 247-(8.95)(14.20)

SEEDING END WIDTH	SEEDING SQ. YDS	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
81		416	0		
	380			542	0
85		298	0		
	201			205	0
71		193	0		
	238			317	0
48		283	0		

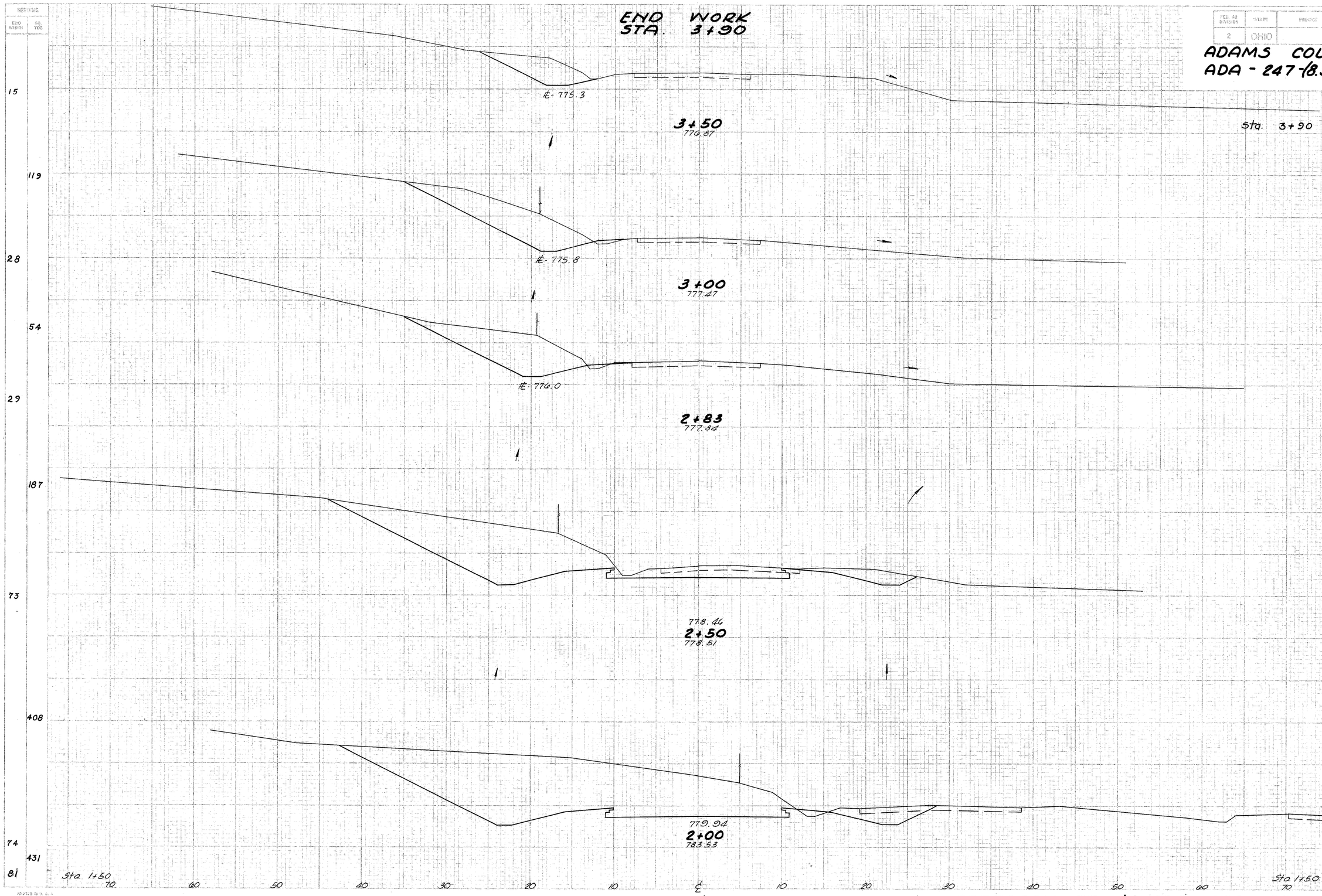


APPROACH RT. ℄ STA. 833+89

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

173

ADAMS COUNTY
ADA - 247-(8.95)(14.20)



SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
15		0	0		
				18	0
	119	24	0		
				74	1
28		56	1		
				35	1
	54				
		56	3		
29					
				125	4
	187				
		148	3		
73					
				379	5
	408				
		261	2		
74					
	431			627	2
81		416	0		

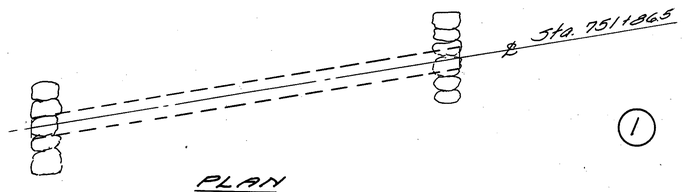
APPROACH RT. ℄ STA. 833 + 89

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

174

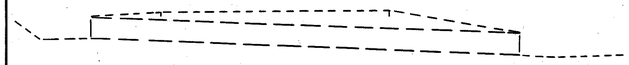
ADAMS COUNTY
ADA-247-(8.95)(14.20)

Existing 18"x30' C.M.P. with Stone Headwalls
To be removed under Item E-12



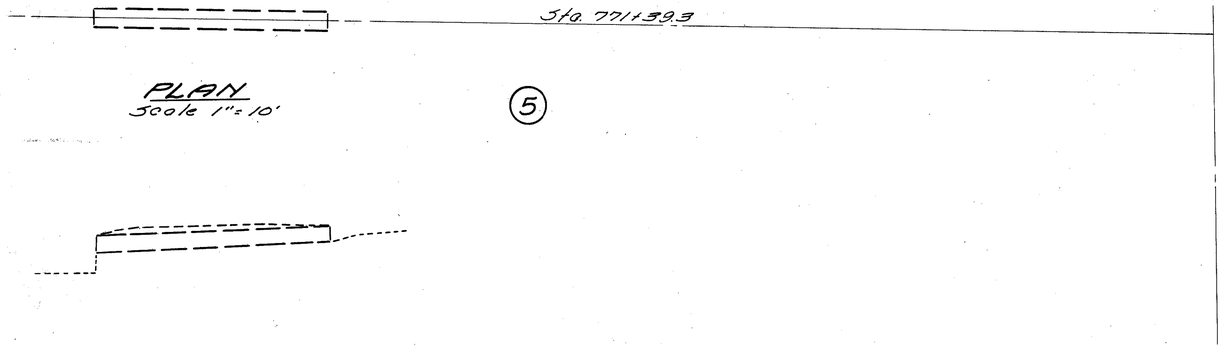
1

PLAN
Scale 1" = 5'



SECTION
Scale 1" = 5'

Existing 30"x32' C.M.P. To be removed under Item E-12

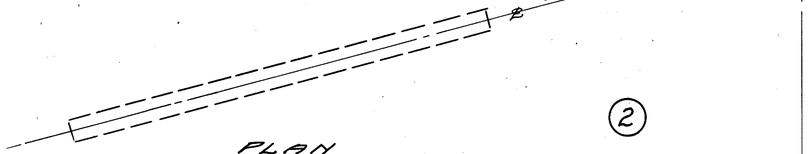


PLAN
Scale 1" = 10'

5

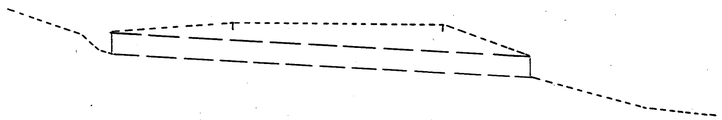
SECTION
Scale 1" = 10'

Existing 18"x30' C.M.P.
To be removed under Item E-12



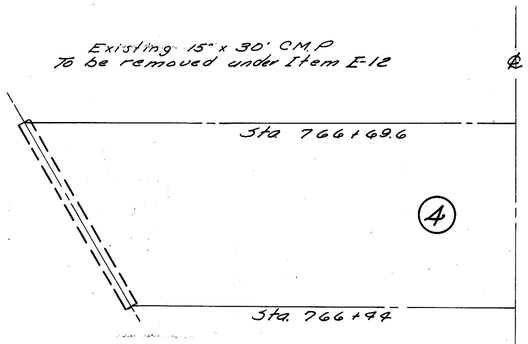
2

PLAN
Scale 1" = 5'



SECTION
Scale 1" = 5'

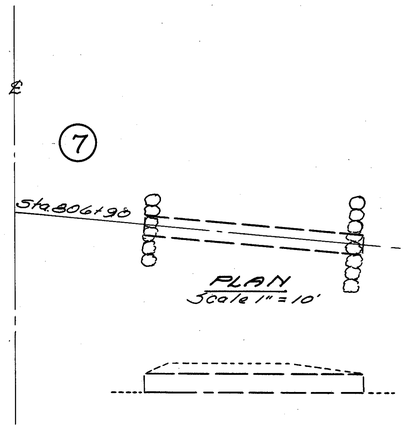
Existing 15" x 30' C.M.P.
To be removed under Item E-12



4

PLAN
Scale 1" = 10

Existing 30"x30' C.M.P. with Stone Headwalls
To be removed under Item E-12



7

PLAN
Scale 1" = 10'

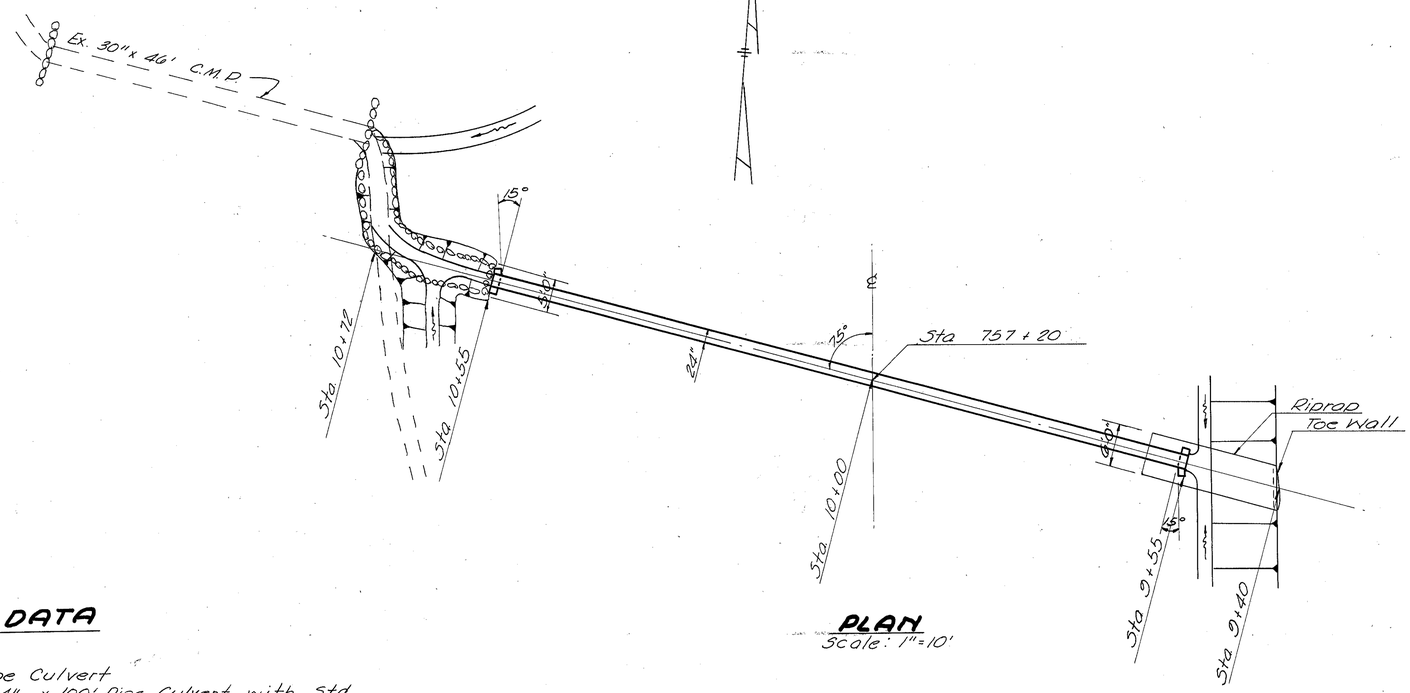
SECTION
Scale 1" = 10'

STRUCTURE REMOVALS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

175

ADAMS COUNTY
ADA - 247 (8.95)(14.20)



PLAN
Scale: 1"=10'

CULVERT DATA

Type: Pipe
Size: 24" x 100' Pipe Culvert
Work Reqd: Build 24" x 100' Pipe Culvert with Std HW-E End Walls, modified (as per plan). Place Dumped Rock Channel Protection and Riprap (as per plan).
Excavate for Channel.

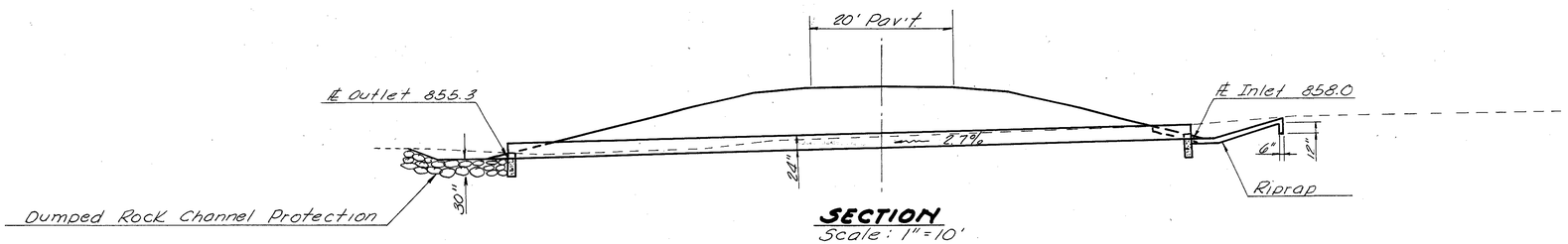
NOTE: Reference shall be made to Std. Const. Drawing HW-E.

Excavation for structure shall be Included in Unit Price Bid for Structure.

DRAINAGE AREA = 36 Ac.
Q10 = 20 c.f.s.

ESTIMATED QUANTITIES

Item I-1	24" Pipe Class A-1	100	L.F.
Item I-2	Masonry - Class "C"	0.82	C.Y.
Item I-10	Riprap	13	S.Y.
Item I-10	Dumped Rock Channel Protection	17	C.Y.
Item E-3	Channel Excavation	3	C.Y.



SECTION
Scale: 1"=10'

3

Datum Line
840

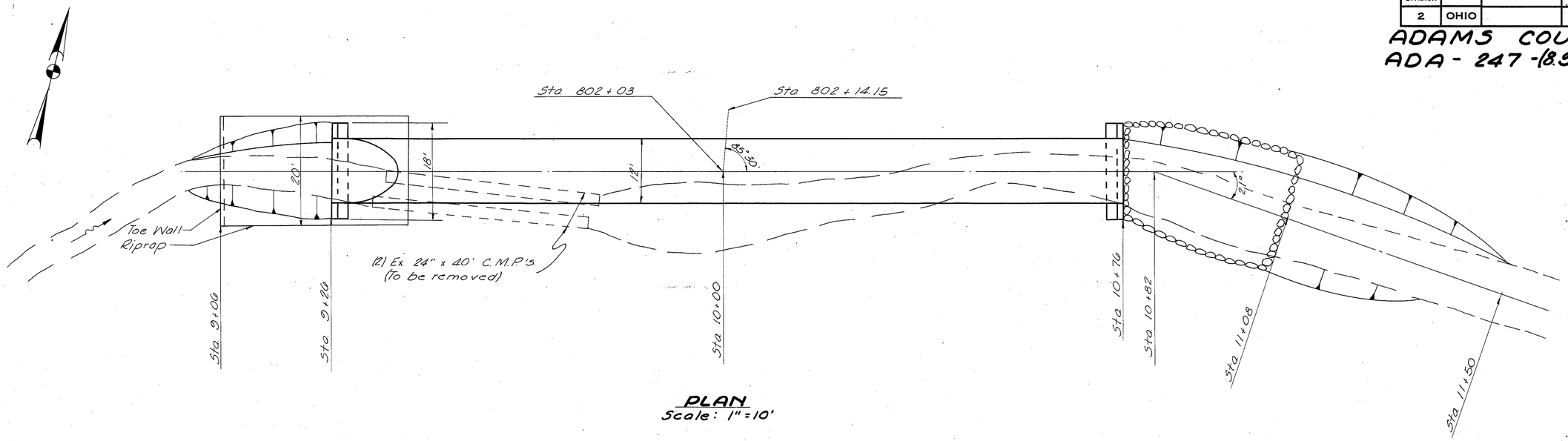
ADA-247-14.34

PROP. PIPE CULVERT
STA. 757+20

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

176

ADAMS COUNTY
ADA - 247 - (8.95)(14.20)



PLAN
Scale: 1" = 10'

CULVERT DATA

Type: Pipe
Size: 12' x 150' Pipe Culvert
Work Req'd: Build 12' x 150' Pipe Culvert with Std. SP-53 End walls. Place Dumped Rock Channel Protection and Riprap (as per plan). Excavate for Channel. Remove Existing Structures.

DRAINAGE AREA 979 Ac.
Q_{25} = 1000 c.f.s.

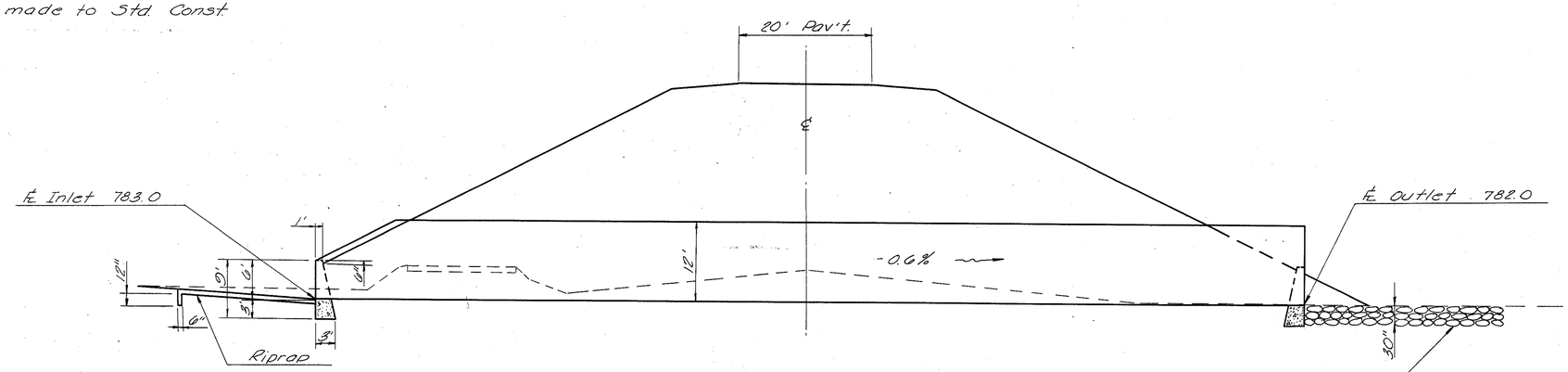
NOTE: Anchor Bolts **shall** be provided at Inlet **end.** See SP-53 for details.

Excavation for Structure shall be included in Unit Price Bid for Structure.

Reference shall be made to Std. Const. Drawing Nº SP-53

ESTIMATED QUANTITIES

Item	I-1	12' Pipe M-6.4(9) 5-3 Gage	Class A-1	150 L.F.
Item	I-2	Masonry	- Class "C"	15.6 Cu. Yds.
Item	I-10	Riprap		80 Sq. Yds.
Item	I-10	Dumped Rock Channel Protection		53 Cu. Yds.
Item	E-12	Pipe Removed, Over 18"		80 L.F.
Item	E-3	Channel Excavation		10 Cu. Yds.



SECTION
Scale: 1" = 10'

ADA-247-15.18

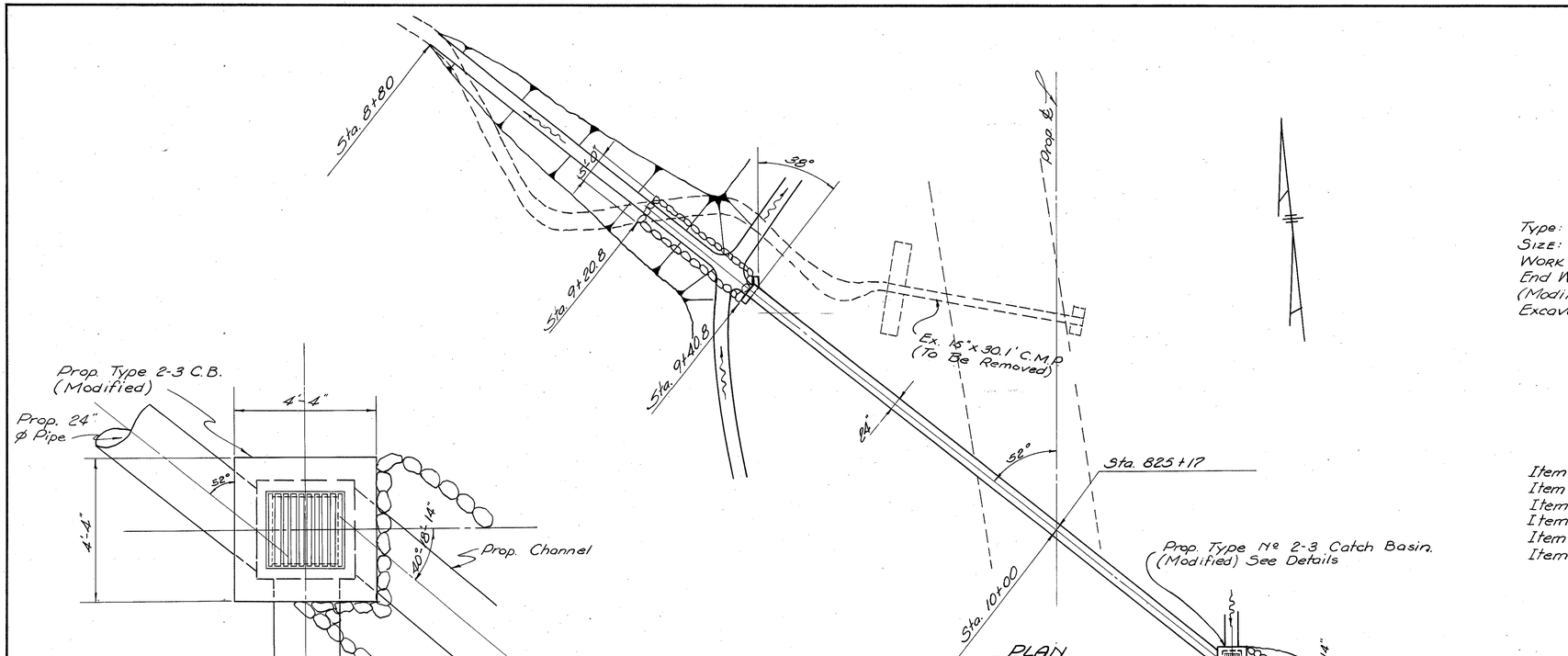
(6)

PROP. PIPE CULVERT
STA. 802 + 03

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

177

ADAMS COUNTY
ADA-247-(8.95)(14.20)



DRAINAGE AREA = 6.2 Ac.
Q10 = 14.5 c.f.s.

NOTES: 1. Reference shall be made to Std. Cons. Dwg. HW-E and to Std. Cons. Dwg. C.B. 2-3 & 2-4

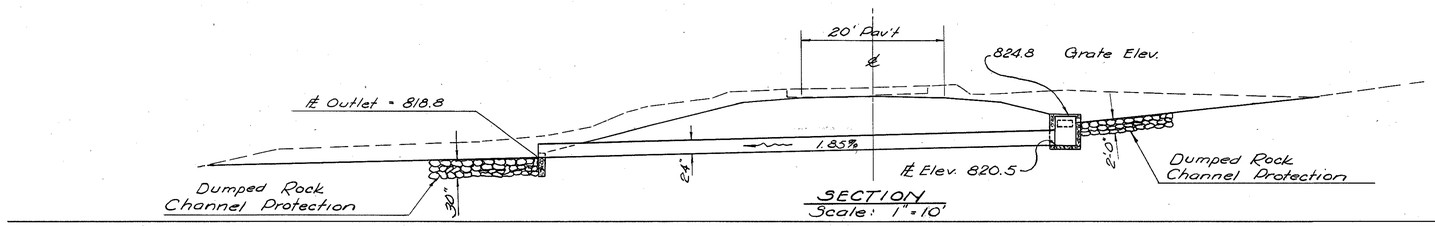
2. Excavation for Structure shall be included in Unit Price Bid for Structure.

CULVERT DATA

Type: Pipe
Size: 24" x 92'
Work Req'd: Build 24" x 92' Pipe Culvert with Std. HW-E End Wall (Modified) as per plan. Build Type Nº 2-3 Catch Basin (Modified). Place Dumped Rock Channel Protection (as per plan). Excavate for Channel. Remove Existing Structure.

ESTIMATED QUANTITIES

Item E-3	Channel Excavation	51	Cu. Yds.
Item E-12	Removal of Existing Structure	30.1	Lin. Ft.
Item I-1	24" A-1	92	Lin. Ft.
Item I-2	Masonry - Class "C"	0.41	Cu. Yd.
Item I-8	Type 2-3 C.B. (Modified)	1	Each
Item I-10	Dumped Rock Channel Protection	18	Cu. Yd.



S.L.M. 15.62

8

PROP PIPE CULVERT
STA. 825+17

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

178

ADAMS COUNTY
ADA - 247 - (8.95)(14.20)

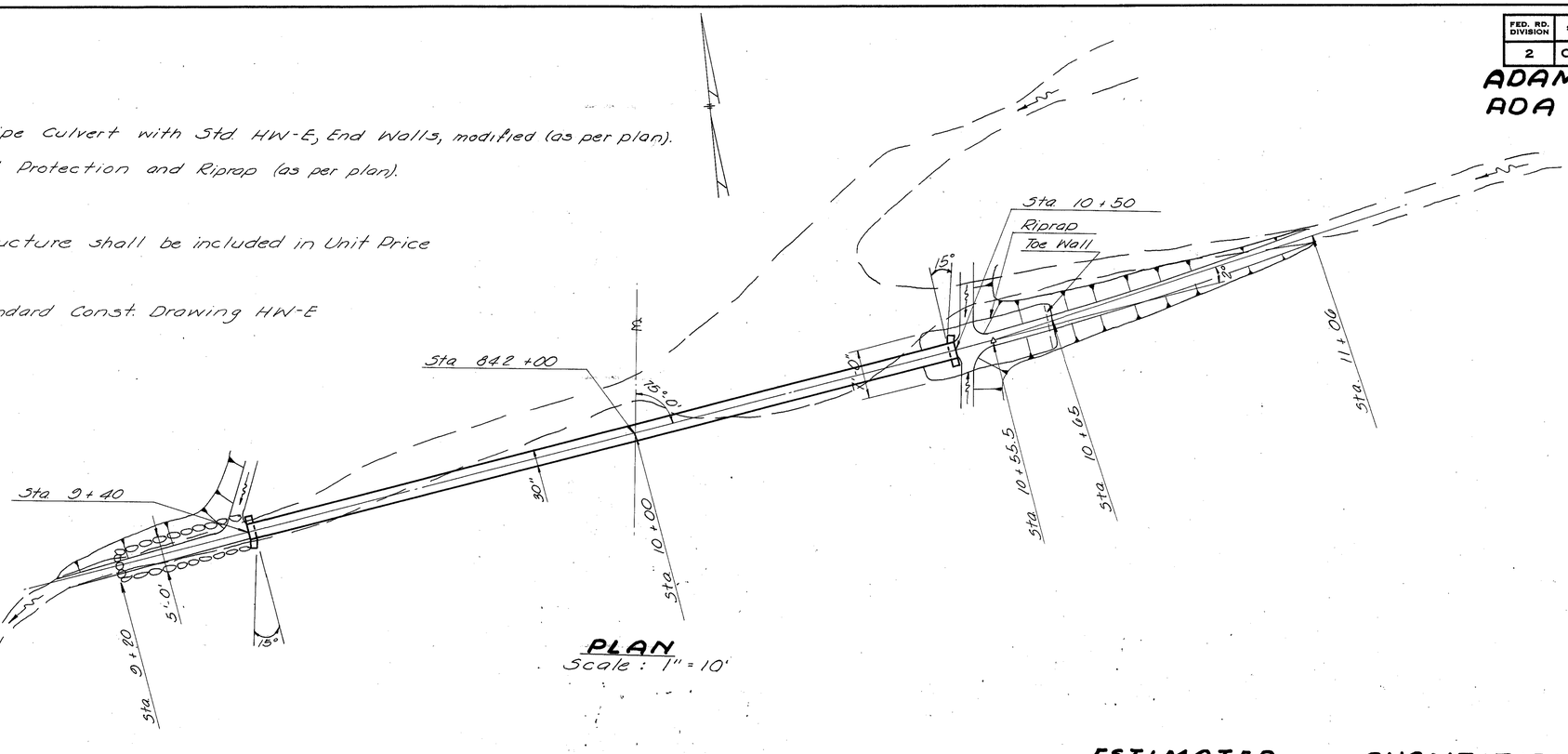
CULVERT DATA

Type : Pipe
Size : 30" x 110' Pipe
Work Req'd : Build 30" x 110' Pipe Culvert with Std. HW-E, End Walls, modified (as per plan).

Place Dumped Rock Channel Protection and Riprap (as per plan).
Excavate for Channel.

NOTE : Excavation for Structure shall be included in Unit Price Bid for Structure.

Reference shall be made to Standard Const. Drawing HW-E

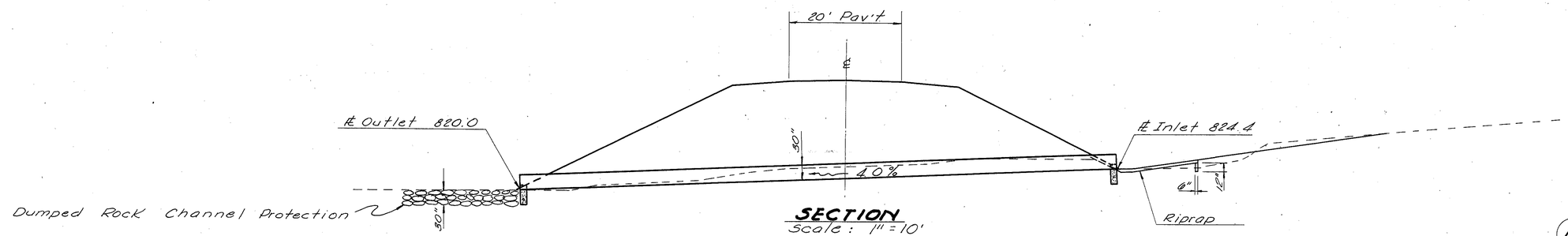


PLAN
Scale : 1" = 10'

DRAINAGE AREA = 36 Ac.
Q10 = 43.5 c.f.s.

ESTIMATED QUANTITIES

Item	E-3	Channel Excavation	10 C.Y.
Item	I-1	30" - Class A-1 Sec. M-6.6(c) or M-6.4(d)	110 L.F.
Item	I-10	Riprap	15 S.Y.
Item	I-10	Dumped Rock Channel Protection	9 C.Y.
Item	I-2	Masonry - Class "C"	1.02 C.Y.



SECTION
Scale : 1" = 10'

10

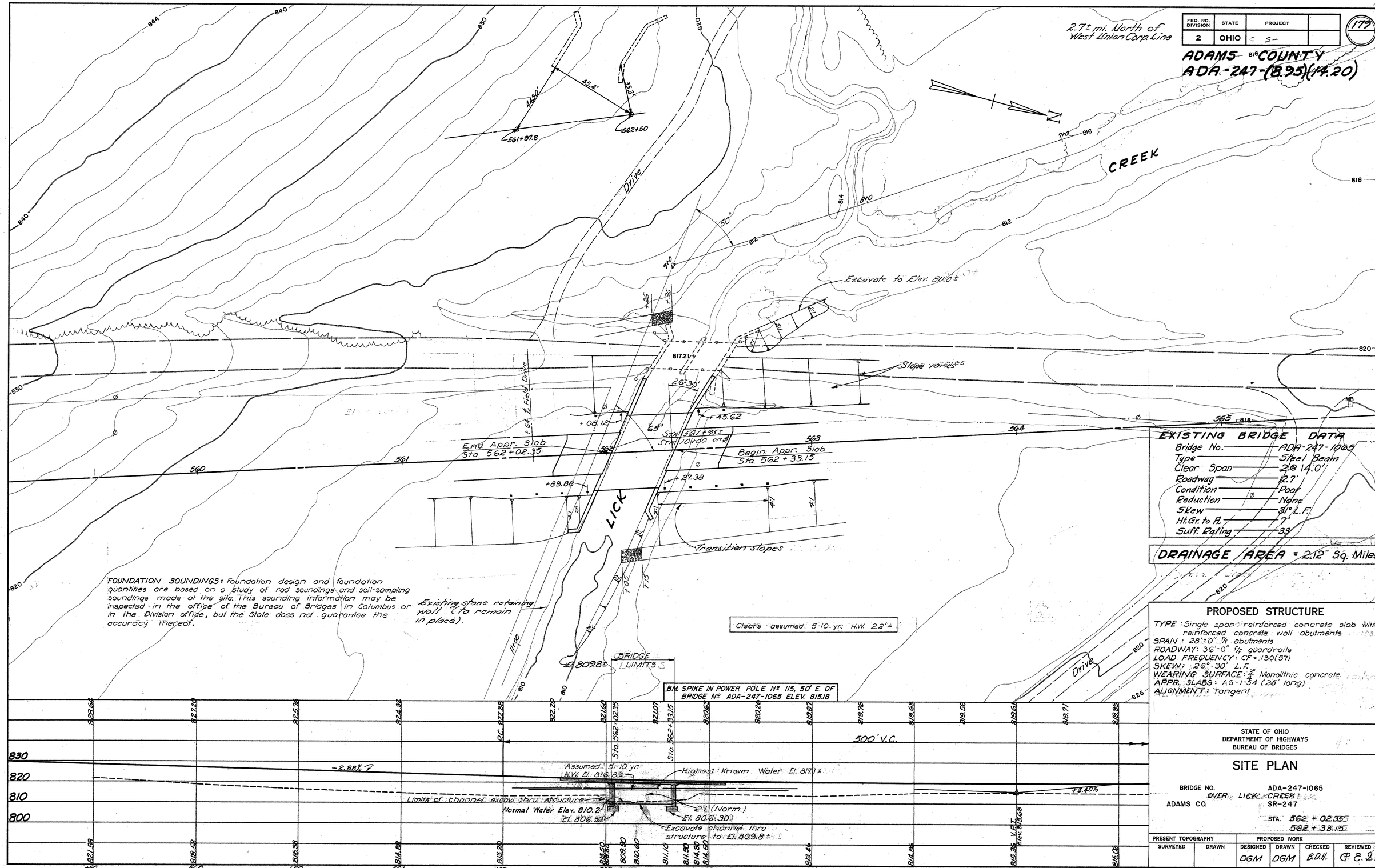
ADA-247-15.94

PROP. PIPE CULVERT
STA. 842 + 00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	S-	

179

ADAMS COUNTY
ADA-247-(8.95)(14.20)



FOUNDATION SOUNDINGS: 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 does not guarantee the accuracy thereof.

EXISTING BRIDGE DATA

Bridge No.	ADA-247-1065
Type	Steel Beam
Clear Span	2 @ 14.0'
Roadway	12.7'
Condition	Poor
Reduction	None
Skew	31° L.F.
Ht. Gr. to Fl.	7'
Suff. Rating	33

DRAINAGE AREA = 2.12 Sq. Miles

PROPOSED STRUCTURE

TYPE: Single span reinforced concrete slab with reinforced concrete wall abutments
SPAN: 28'-0" f/f abutments
ROADWAY: 36'-0" f/f guardrails
LOAD FREQUENCY: CF = 130(57)
SKEW: 26°-30' L.F.
WEARING SURFACE: 3/4" Monolithic concrete.
APPR. SLABS: AS-1-54 (26' long)
ALIGNMENT: Tangent

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO. ADA-247-1065
OVER LICK CREEK
ADAMS CO. SR-247
STA. 562 + 02.35
562 + 33.15

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

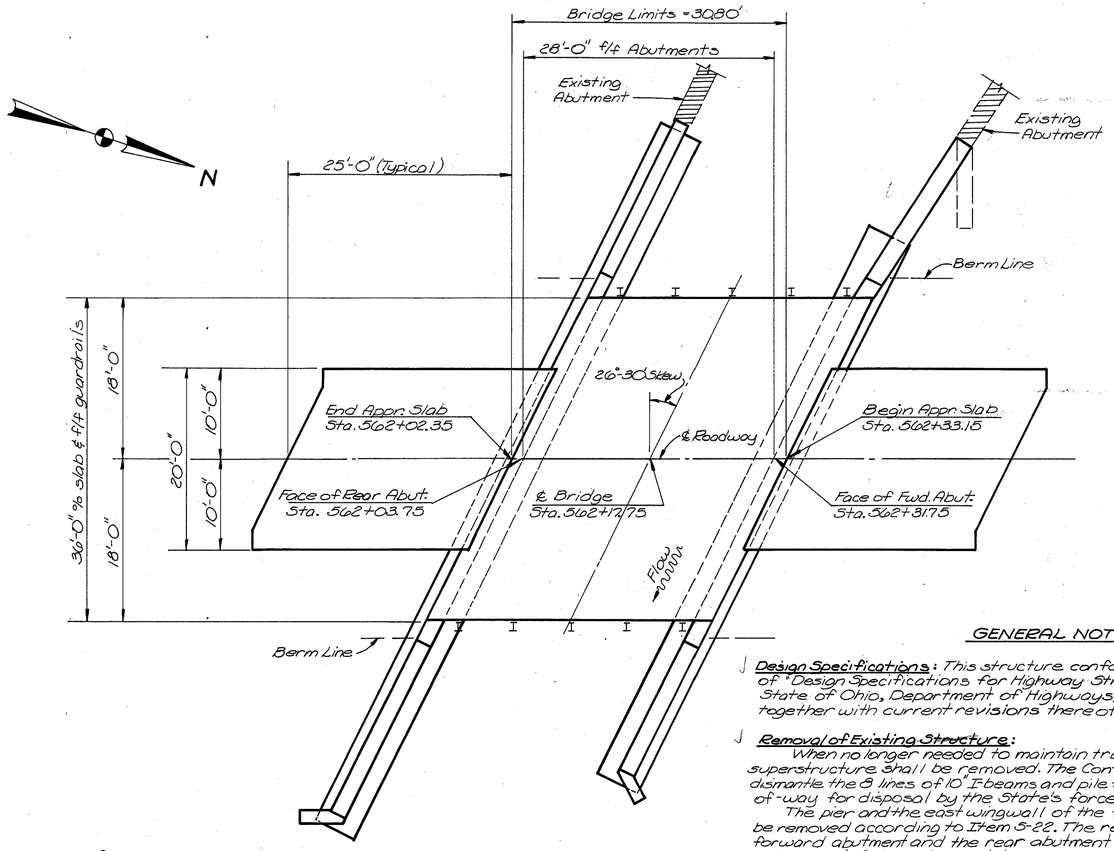
AERIAL SURVEY

BFG

FED. RD. DIVISION	STATE	PROJECT	-
2	OHIO		

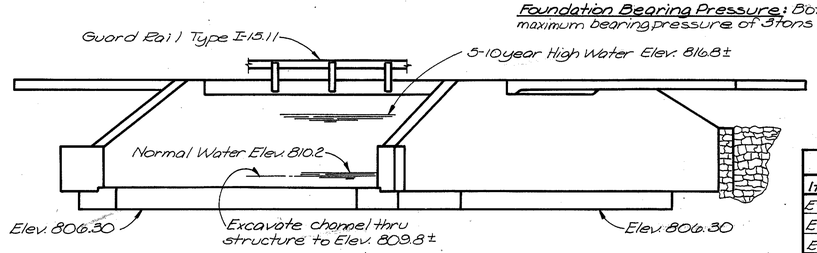
180

ADAMS COUNTY
ADA-247-(8.95)(14.20)



GENERAL PLAN

2.88% Grade — V.P.C. Sta. 561+50.00 Elev. 822.88 — 500' V.C.



ELEVATION

GENERAL NOTES

Design Specifications: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57, together with current revisions thereof.

Removal of Existing Structure: When no longer needed to maintain traffic the existing superstructure shall be removed. The Contractor shall carefully dismantle the 8 lines of 10" I beams and pile them along the right-of-way for disposal by the State's forces.

The pier and the east wingwall of the forward abutment shall be removed according to Item 5-22. The remainder of the forward abutment and the rear abutment shall be left in place.

Removal of stone from existing wings shall be made to the elevations and extent shown. Removal shall be made to stone courses and joints. It is not the intention to require cutting and dressing of stone. Stone shall be replaced with concrete to the lines shown adjacent to the new wings.

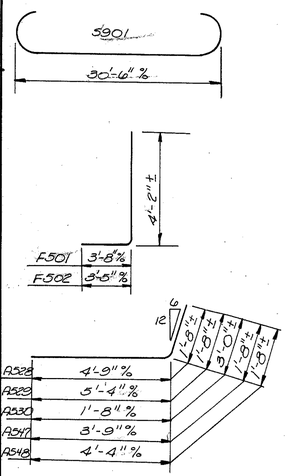
Footings shall extend a minimum of 3" into solid rock or to the elevation shown, whichever is lower.

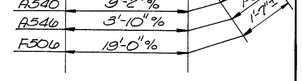
Foundation Bearing Pressure: Both footings are designed for a maximum bearing pressure of 3 tons per sq. ft.

REINFORCING STEEL LIST

Mark	No.	Length	Weight	Shp	Rear Abut.	Fwd. Abut.
Superstructure						
S901	78	33'-0"	8,752	B		
S601	136	21'-0"	4,290	S		
S501	13	30'-6"	414	S		
Abutments						
F501	57	7'-8"	456	B	57	–
F502	53	7'-5"	410	B	–	53
F503	12	6'-0"	75	S	6	6
F504	6	29'-4"	184	S	6	–
F505	4	31'-6"	131	S	–	4
F506	2	20'-7"	43	B	–	2
A501	20	10'-10"	226	S	20	–
A502	20	10'-5"	217	S	20	–
A503	9	4'-2"	39	S	9	–
A504	2	5'-2"	11	S	2	–
A505	4	6'-6"	27	S	2	2
A506	2	7'-10"	16	S	2	–
A507	2	9'-3"	19	S	2	–
A508	14	9'-10"	144	S	–	14
A509	4	12'-0"	50	S	4	–
A510	2	12'-3"	26	S	2	–
A511	6	11'-4"	71	S	2	4
A512	14	10'-3"	150	S	–	14
A513	4	9'-9"	41	S	2	2
A514	2	9'-0"	19	S	2	–
A515	2	8'-2"	17	S	2	–
A516	4	7'-4"	31	S	2	2
A517	2	6'-10"	14	S	2	–
A518	52	26'-0"	1,085	S	28	24
A519	6	24'-10"	155	S	6	–
A520	2	20'-10"	43	S	2	–
A521	2	16'-5"	34	S	2	–
A522	8	23'-6"	196	S	8	–
A523	2	18'-6"	39	S	2	–
A524	1	4'-3"	4	S	1	–
A525	1	3'-4"	3	S	1	–
A526	6	2'-3"	14	S	1	5
A527	6	3'-2"	20	S	5	1
A528	3	6'-4"	20	B	3	–
A529	3	6'-11"	22	B	3	–
A530	7	4'-7"	33	B	3	4
A531	2	11'-10"	25	S	–	2
A532	2	11'-1"	23	S	–	2
A533	4	8'-6"	35	S	–	4
A534	2	7'-2"	15	S	–	2
A535	2	5'-10"	12	S	–	2

Bending Diagrams





Mark	No.	Length	Weight	Shp	Rear Abut.	Fwd. Abut.
A536	7	5'-0"	37	S	–	7
A537	2	9'-6"	20	S	–	2
A538	8	21'-8"	181	B	–	8
A539	2	17'-5"	36	B	–	2
A540	2	11'-10"	25	B	–	2
A541	2	8'-6"	18	S	–	2
A542	2	13'-0"	27	S	–	2
A543	2	17'-6"	37	S	–	2
A544	6	20'-6"	128	S	–	6
A545	1	3'-10"	4	S	–	1
A546	1	4'-10"	5	B	–	1
A547	4	5'-4"	22	B	–	4
A548	4	5'-11"	25	B	–	4
A549	2	13'-9"	33	S	–	2
A550	2	17'-2"	30	S	–	2
Replacement Bars						
RE901	1	6'-10"	–	S		
RE601	1	5'-11"	–	S		
RE501	1	5'-7"	–	S		

Replacement Bars: If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Highway Testing Laboratory, test samples as provided in Sec. 5-4.02 need not be furnished and replacement bars will not be required.

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Superst.	Abut.	General
E-2	lump	Sum	Cofferdams, cribs, and sheeting			lump
E-2	118	cu. yds.	Rock excavation		118	
E-3	97	cu. yds.	Channel excavation			97
S-1	66	cu. yds.	Class "C" concrete, superstructure	66		
S-1	111	cu. yds.	Class "E" concrete, abutment walls		111	
S-1	72	cu. yds.	Class "E" concrete, abutment footings		72	
S-3	22	lin. ft.	Waterproofing, premolded sealing strip		22	
S-4	18,285	lbs.	Reinforcing steel	13,456	4,829	
S-9	14	sq. ft.	½" preformed expansion joint filler		14	
S-14	61.60	lin. ft.	Railing (Type I-15.11 with galvanized steel posts and bolts)	61.60		
S-22	lump	Sum	Removal of portions of existing substructure			lump
S-24	lump	Sum	Removal of existing superstructure			lump
S-29	110	cu. yds.	Porous Backfill		110	

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

GENERAL PLAN & ELEVATION
NOTES & ESTIMATED QUANTITIES
REINFORCING STEEL LIST
BRIDGE NO. ADA-247-1065
over LICK CREEK
ADAMS COUNTY
STA. 562+02.35
STA. 562+33.15

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JGB	JGB	M.K.H.	J.V.G.	BFG	4-13-61	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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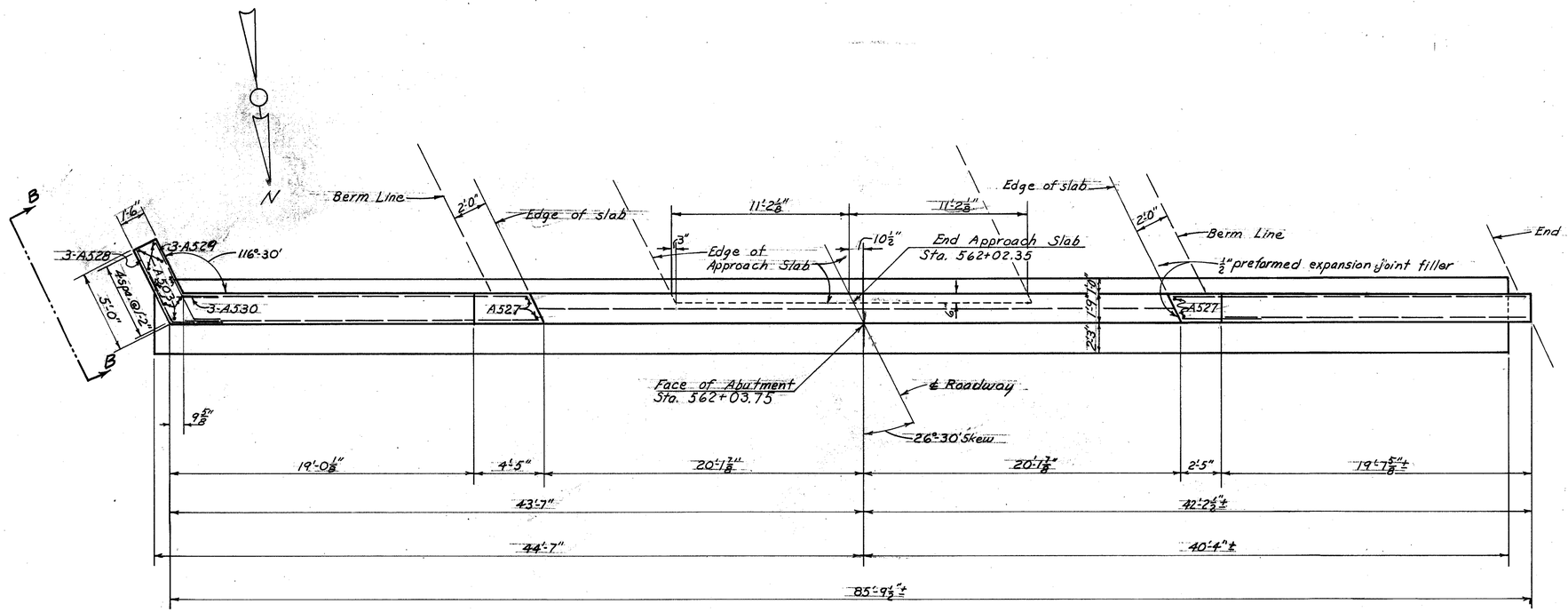
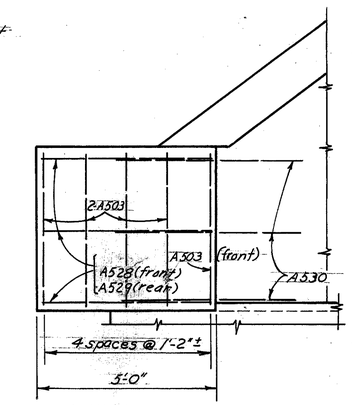
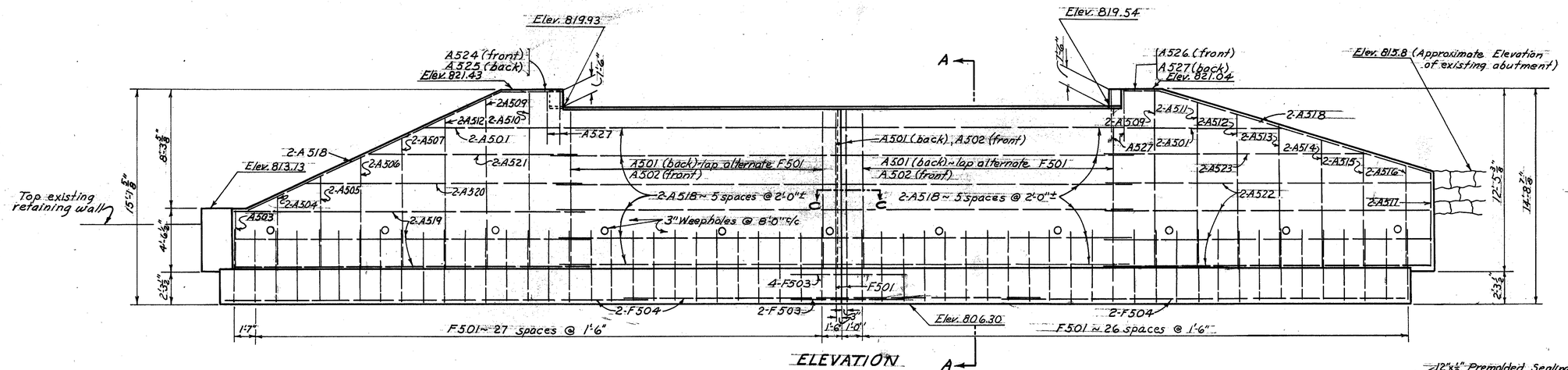
ADAMS COUNTY
ADA-247(8.93)(14.20)

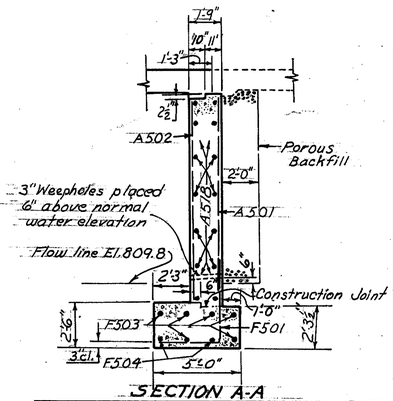




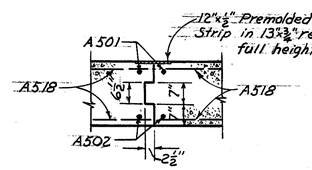
VIEW B-B



ELEVATION



SECTION A-A



SECTION C-C
(Contraction Joint)

NOTES:

POROUS BACKFILL shall extend full length of abutment and wings, extending from 6" below the weepholes to the bottom of approach slab or surface of approach embankment placed not higher than Elev. 811.2 before the slab is in position.

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.

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

REAR ABUTMENT DETAILS

BRIDGE No. ADA-247-1065
OVER LICK CREEK
ADAMS COUNTY STA. 562+02.35
STA. 562+33.15

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JGB	JGB	N.L.O.	J.V.G.	BFG	4-13-61	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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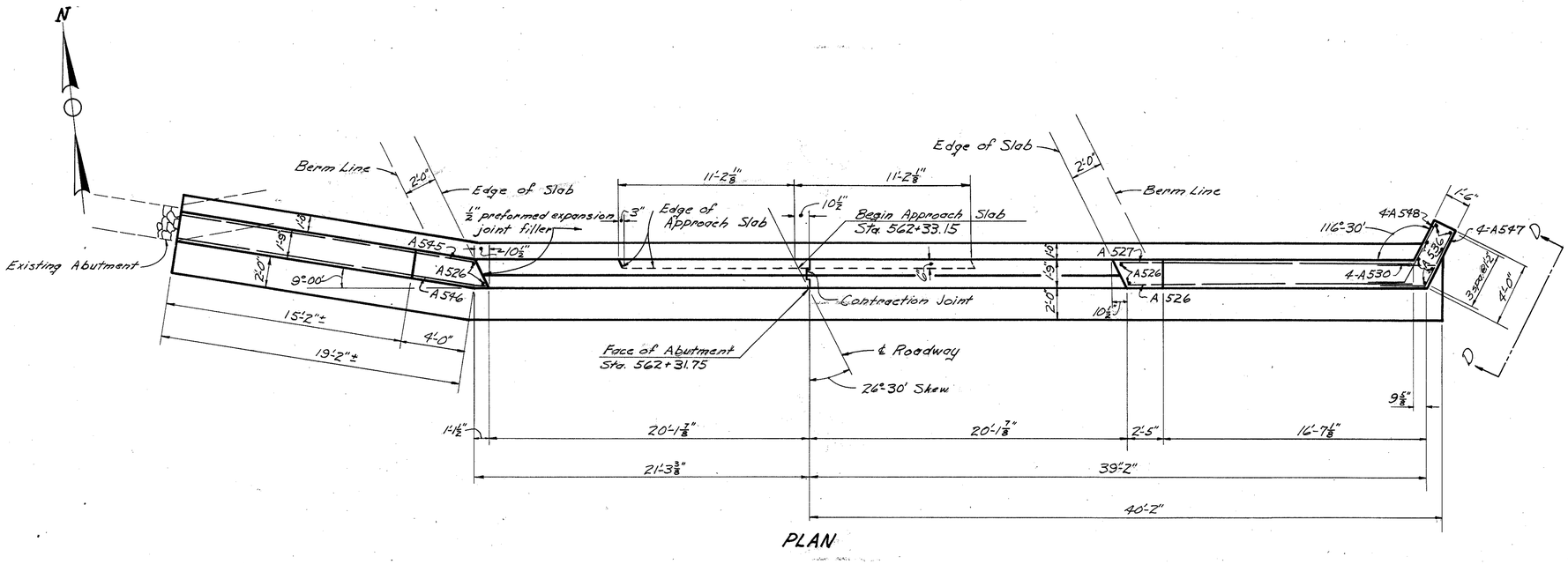
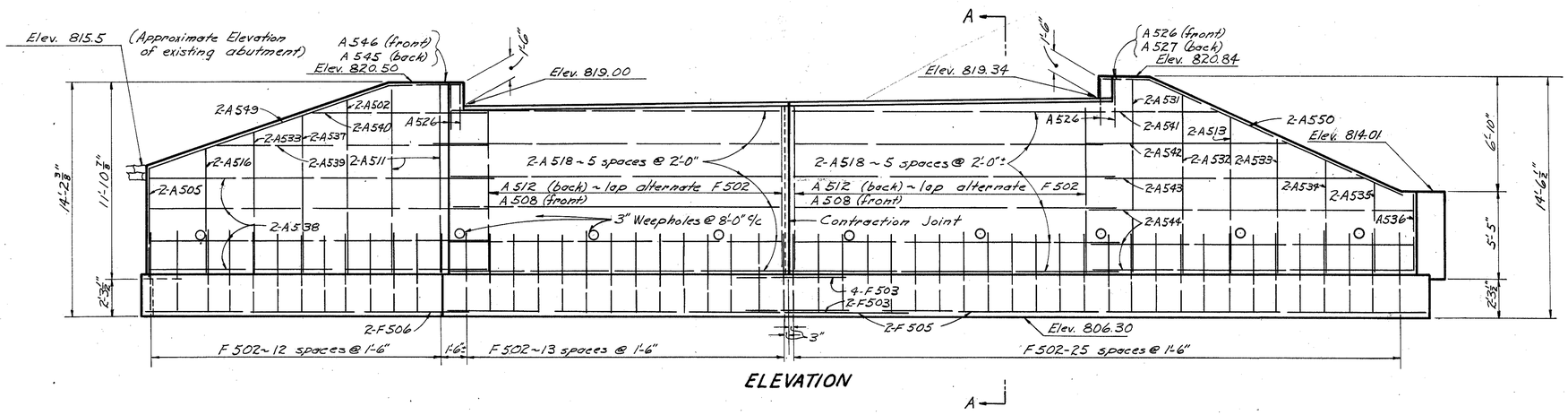
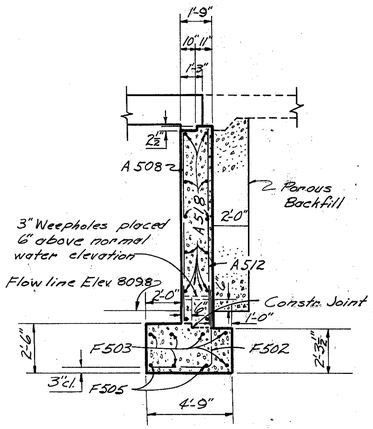
ADAMS COUNTY
ADA-247(8.95)(14.20)





ELEVATION



SECTION A-A

For notes see "Rear Abutment Details"

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

4/5

FORWARD ABUTMENT DETAILS

BRIDGE NO. ADA-247-1065
OVER LICK CREEK
ADAMS COUNTY
STA. 562+02.35
STA. 562+33.15

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JGB	JGB	P.E.M.	J.V.G.	BFG	4.13.61	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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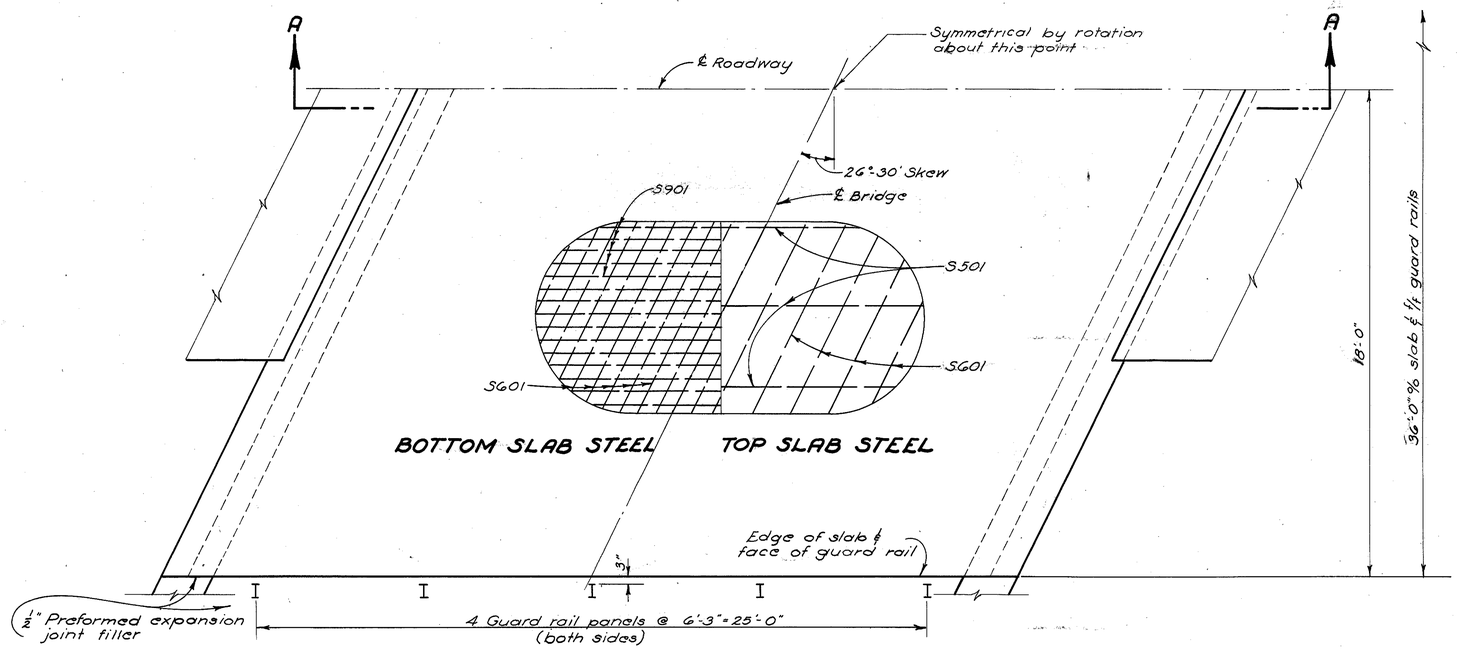
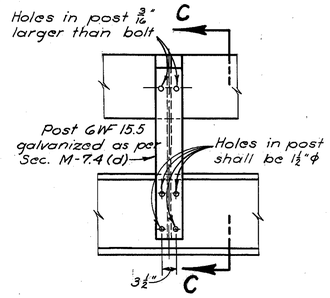
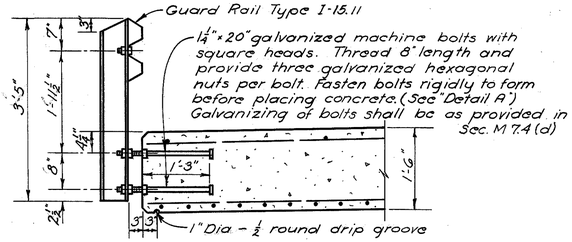
ADAMS COUNTY
ADA-247(8.95)(14.20)



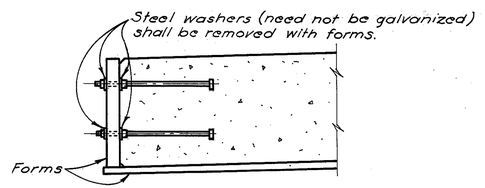
PART PLAN



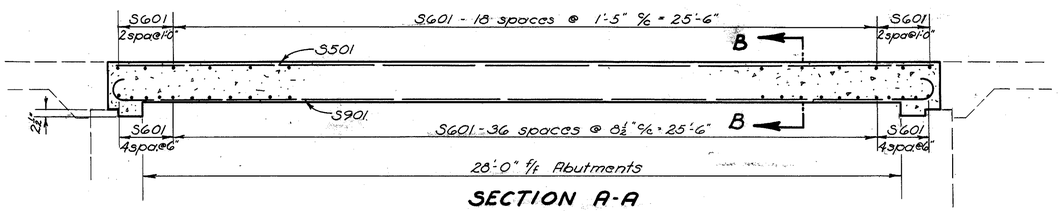
ELEVATION OF RAILING POST



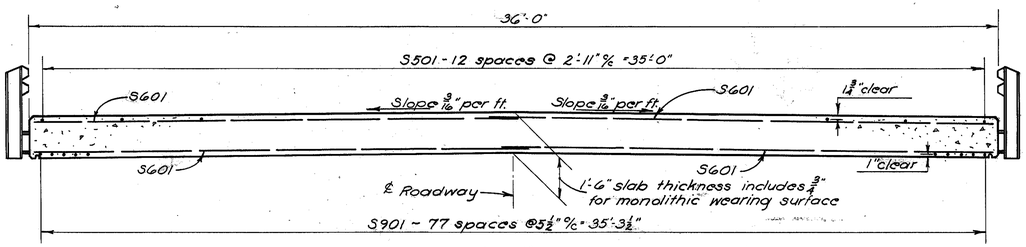
SECTION C-C



DETAIL "A"



SECTION A-A



SECTION B-B

CAMBER of ⅝" shall be provided to allow for dead load deflection. This is the amount of camber required before falsework is released. To obtain this, proper allowance shall be made for the deflection of falsework members.

CONCRETE shall be Class "C."

RAILING: Transition between guard rail height on bridge and on approaches shall be made in a distance of 100 feet from each end of bridge.
Guard rail shall be painted white in accordance with section 1-15.07 of the Construction and Material Specifications.
Galvanized posts and anchor bolts shall not be painted.
Tabulated railing quantity is for the length of railing within the overall length of slab. The price per lineal foot of railing includes payment for guard rail, posts, anchors, connections, galvanizing and painting.

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

SUPERSTRUCTURE DETAILS

BRIDGE No. ADA-247-1065
OVER LICK CREEK
ADAMS COUNTY
STA 562+02.35
STA 562+33.15

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JGB	JGB		J.V.G.	BFG	4-13-61	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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ADAMS COUNTY
ADA-247-(8.93)(14.20)

SECTIONS			END AREA		VOLUME	
END WIDTH	SQ. YDS.		CUT	FILL	CUT	FILL
4						
	30		13	0		
					39	0
7						
	20		29	0		
					27	0
0						
			0	0		

9+00
816.10

100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30

97 Cu Yds.
61 Sq Yds.

8+50
812.70

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

8+00
814.40

110 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30

7+50
814.70

7+00
815.20

ESTIMATED QUANTITIES

Item E-3 Channel Excavation
Item L-9 Seeding

CHANNEL CROSS SECTIONS
STRUC. NO. ADA-247-1065

X-SECTIONS ON ℄ LT. ℄ STA. 561+95

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

185

ADAMS COUNTY
ADA-247-(8.95)(14.20)

SEEDING

END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL
0	0		
		20	
2	0		
		60	
		50	
		80	
		30	
		150	

Ex. Rock Wall
11+00
812.81

Ex. Rock Wall
10+50
812.90

Prop. Bridge Abutments
Ex. Rock Wall
10+00
813.20

Prop. Bridge Abutment
9+50
817.41

CHANNEL CROSS SECTIONS
STRUCTURE NO. 247-1065

Sta. 9+0 — 100 90 80 70 60 50 40 30 20 10 — 10 20 30 40 — Sta. 9+0

X-SECTIONS ON ℄ LT & RT ℄ STA. 561+95

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

186

ADAMS COUNTY
ADA-247-(8.95)(14.20)
2.4 mi.± South of Seaman Corp. Line

CHERRY FORK

Ex. S.R. 247

Ex. 4 - 24"x40' C.I.P.

Fill to El. 780.0± and slope to drain

Transition 2:1 to 4:1

Begin Appr. Slab Sta. 777+36.60

End Appr. Slab Sta. 775+88.40

I-10.0T. "Dumped Rock Channel Protection" (2' thick).

Clears Assumed 5-10 yr. H.W. 4.3'±

B.M CUT ON CONCRETE APRON ON E. SIDE ADA-247-1471 ELEV. 780.79

FOUNDATION SOUNDINGS: 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 does not guarantee the accuracy thereof.

EXISTING BRIDGE DATA S/O

Bridge No.	ADA-247-1471
Type	C.I.P.
Span	4 - 24"x40'
Roadway	18'
Skew	30° R.F.

DRAINAGE AREA = 17.00 Mi.

PROPOSED STRUCTURE

TYPE: Continuous steel beams with reinforced concr. deck and reinf. concr. substruct.
SPAN: 44'-55'-44' % brgs.
ROADWAY: 36'-0" c/c guard rails
LOAD FREQUENCY: CF = 130(5T)
SKEW: 30° R.F.
WEARING SURFACE: ¾" Monolithic conc.
APPROACH SLABS: AS-1-54 (25' long).
ALIGNMENT: Tangent

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO. ADA-247-1471
OVER CHERRY FORK
ADAMS CO. SR-247
STA. 775+88.40
777+36.60

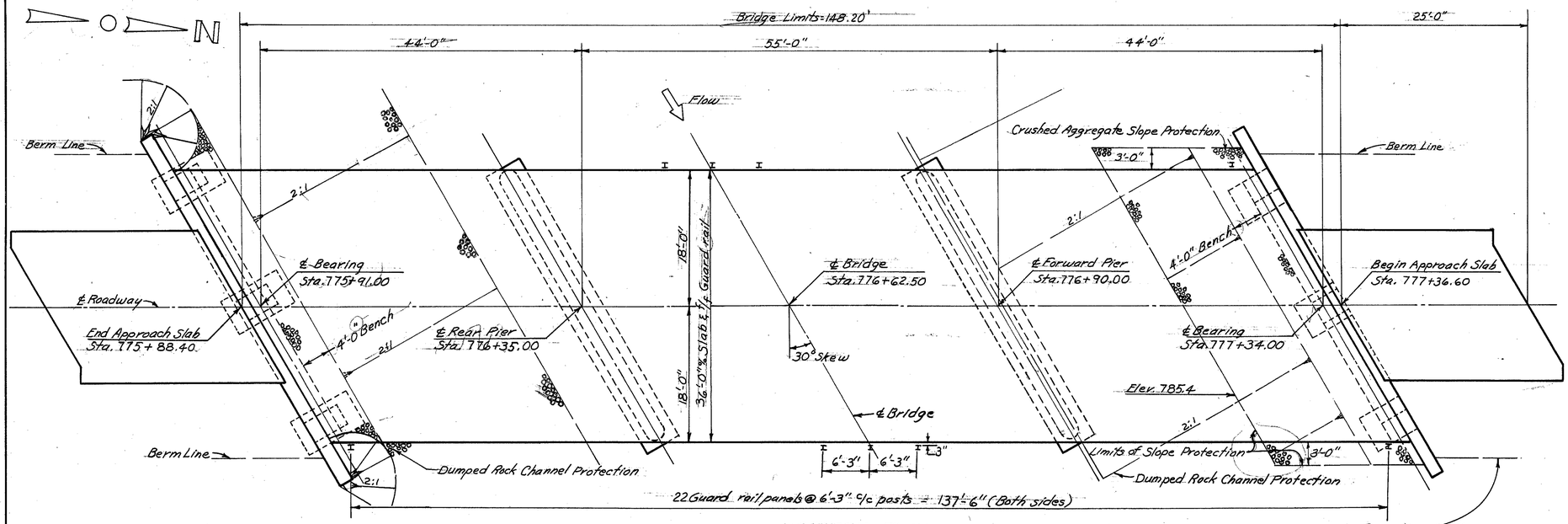
PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
		DGM	DGM	B.D.H.	P.E.S.

AERIAL SURVEY BFG 2-28-61

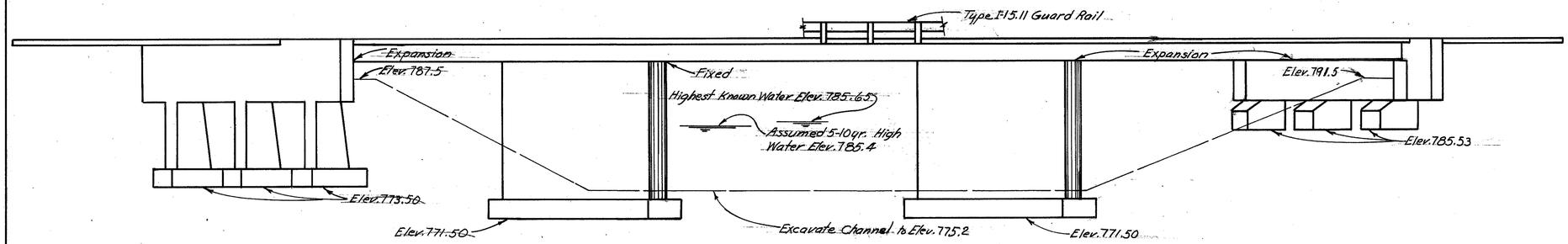
FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

187

ADAMS COUNTY
ADA-247(8.95)(14.20)



GENERAL PLAN



ELEVATION

GENERAL NOTES

REFERENCE shall be made to Standard Drawings CSB-1-55, sheets 1, 2 and 6, revised 2-2-59.

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57, together with current revisions thereof.

EXCAVATION QUANTITY for the forward abutment, in addition to that outlined in Sec. E-2.09, includes the removal of material bounded by the proposed bench, by the front vertical plane described in Sec. E-2.09 and by the finished slope of the cut.

EXCAVATION QUANTITY for the rear abutment includes the removal of fill material between the top of the earth bench and the bottom of the abutment crossbeam.

FOUNDATION BEARING PRESSURE: Abutment and pier footings are designed for a maximum bearing pressure of 5 tons per sq. ft.

FOOTINGS shall extend a minimum of 3" into solid rock or to the elevation shown, whichever is lower.

I-10 CRUSHED AGGREGATE SLOPE PROTECTION shall be provided under the structure at the forward abutment. The aggregate material shall extend from the face of the abutment down to the dumped rock channel protection (approx. Elev. 785.4).

SLAB THICKNESS is 7¼" which includes ¾" for monolithic wearing surface.

CAMBER: No shop camber is required but beams shall be inspected for actual camber and shall be fabricated and erected with the concave flange up.

MACHINE FINISH: At the Contractor's option, the concrete bridge deck may be finished by the use of a finishing machine.

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

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Super.	Pier	Abut.	Gen'l.
E-2	Lump	Sum	Cofferdams, cribs and sheeting				Lump
E-2	141	Cu. yds.	Unclassified excavation		5	136	
E-2	62	Cu. yds.	Rock excavation		54	8	
E-3	1210	Cu. yds.	Channel excavation				1210
S-1	133	Cu. yds.	Class "C" concrete, superstructure	133			
S-1	102	Cu. yds.	Class "C" concrete, abutments above footings			102	
S-1	100	Cu. yds.	Class "E" concrete, piers above footings		100		
S-1	60	Cu. yds.	Class "E" concrete, footings		39	21	
S-4	52,487	Lbs.	Reinforcing steel	35,875	6,663	9,949	
S-7	103,300	Lbs.	Structural steel	103,300			
S-8	103,300	Lbs.	Field painting of structural steel	103,300			
S-14	296.40	Lin. ft.	Railing (Type I-15.11 with galvanized steel posts and bolts)	296.40			
S-24	Lump	Sum	Removal of existing structure				Lump
S-29	21	Cu. yds.	Porous backfill			21	
I-10	95	Sq. yds.	Crushed aggregate slope protection			95	
I-10	300	Cu. yds.	Dumped rock channel protection				300

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

GENERAL PLAN, ELEVATION, NOTES & ESTIMATED QUANTITIES

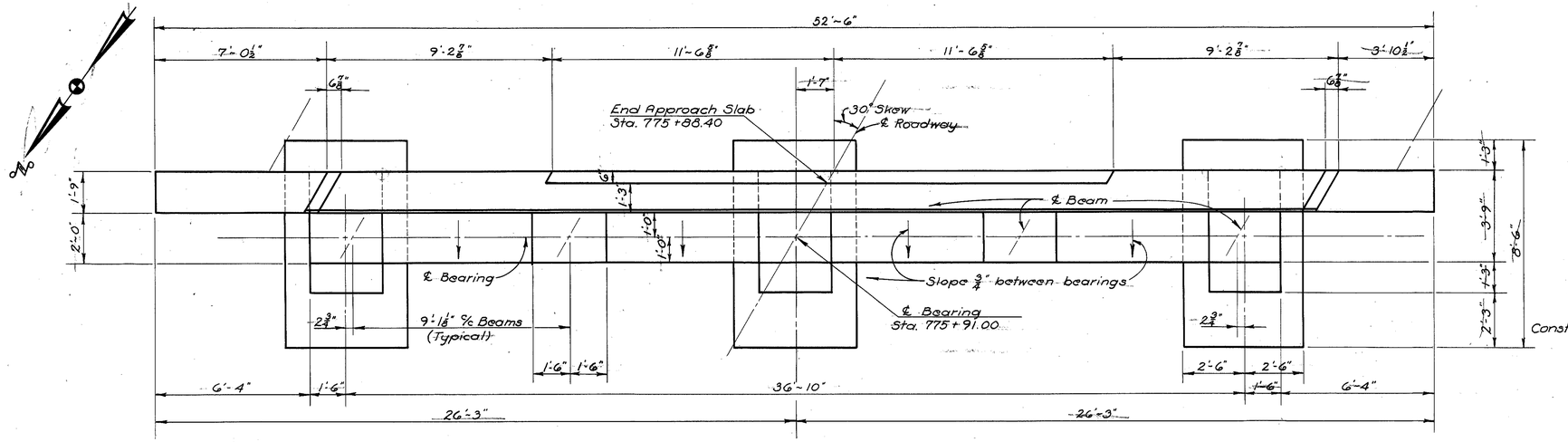
BRIDGE No. ADA-247-1471
OVER CHERRY FORK
ADAMS COUNTY
STA. 775+88.40
STA. 777+36.60

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J E F	J E F	N.L.D.	NEY	BFG	2-28-61	

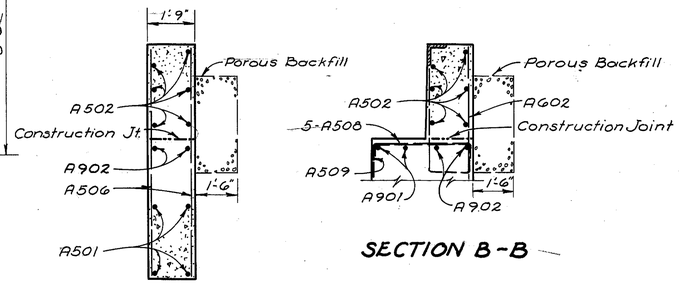
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

188

ADAMS COUNTY
ADA - 247 (8.95)(14.20)

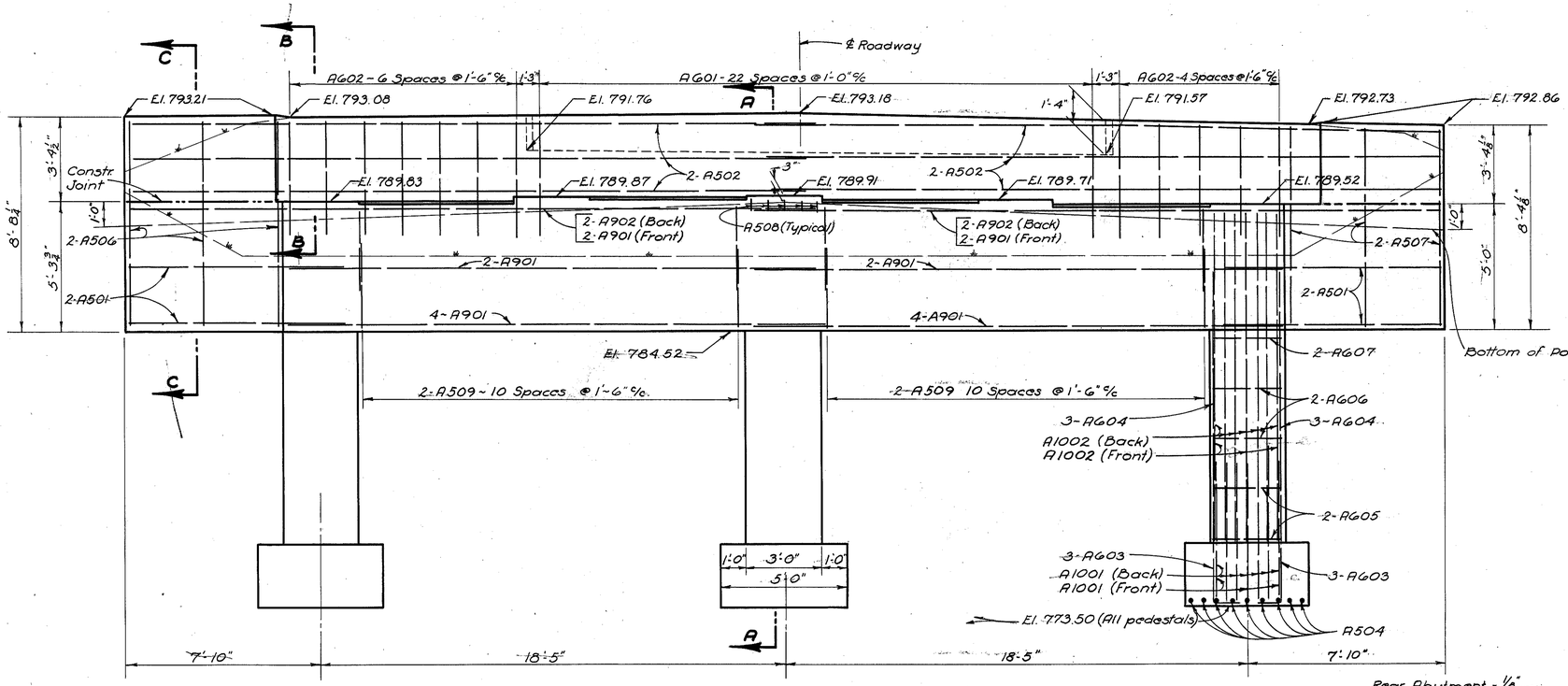


PLAN

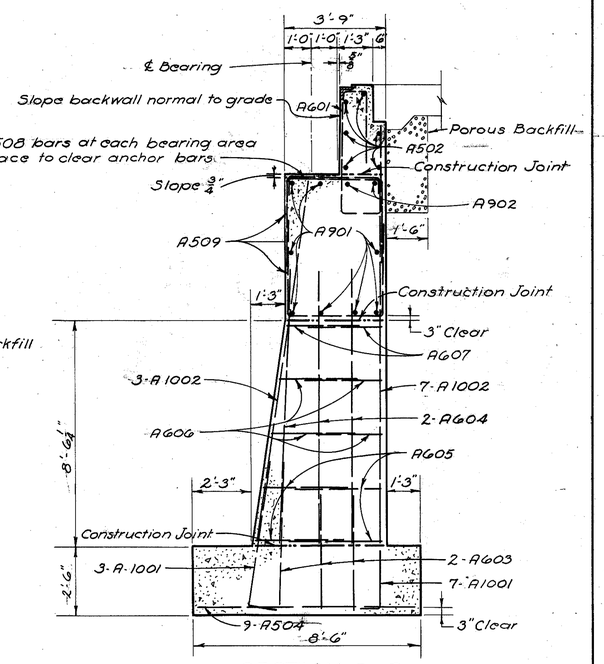


SECTION B-B

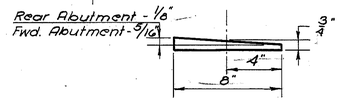
SECTION C-C



ELEVATION



SECTION A-A



BEVELED SOLE PLATES

NOTES:

PROCEDURE: After the pedestals are placed, the earth fill shall be made to the height of the earth bench and the excavation made for the crossbeam.

CONCRETE shall be Class "C" in abutment above footings and Class "E" in footings.

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. Excavation therefor, in excess of that required for the construction of the abutment, shall be considered as paid for in the bid price per cubic yard paid for porous backfill.

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

REAR ABUTMENT DETAILS

BRIDGE No. ADA-247-1471
OVER CHERRY FORK

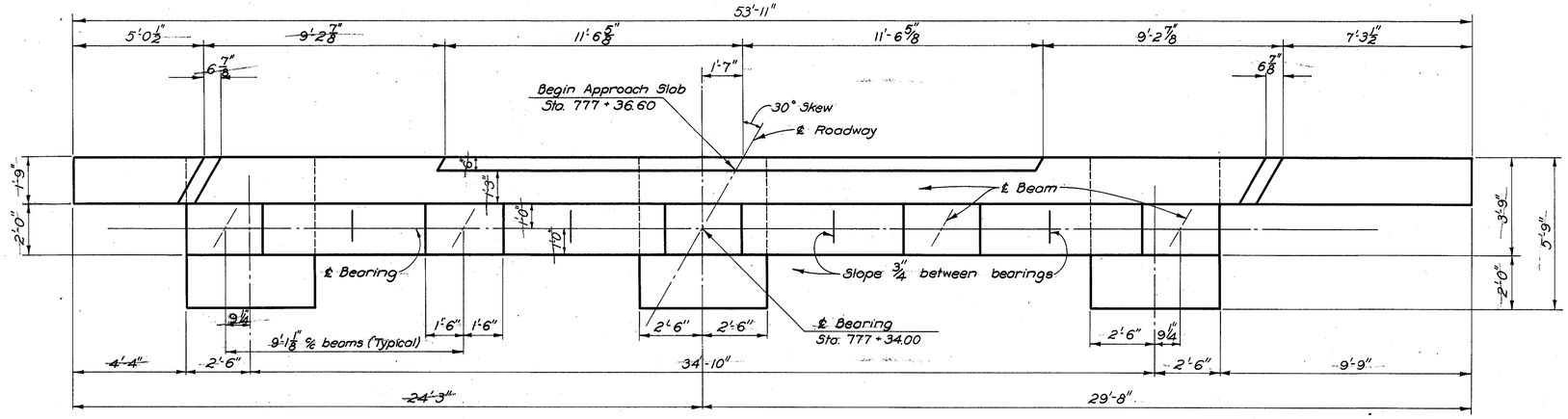
ADAMS COUNTY — STA 775 + 88.40 / STA. 777 + 36.60

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JEF	JEF	[illegible]	NEY	BFG / A.J.F.	2-28-61	

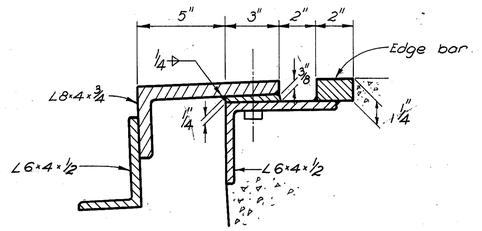
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

189

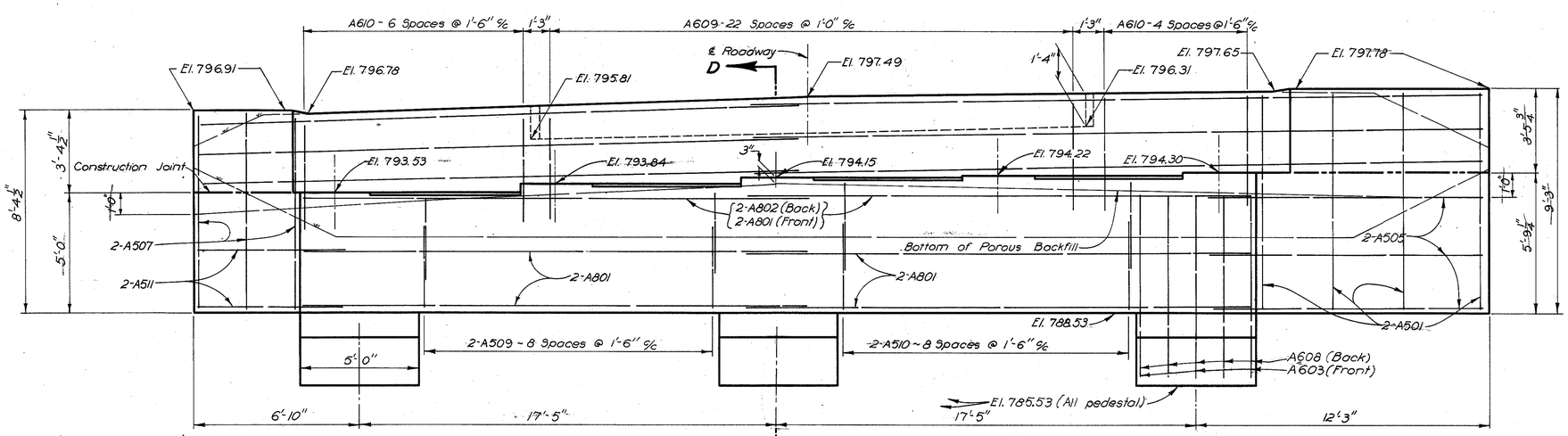
ADAMS COUNTY
ADA-247(8.95)14.20



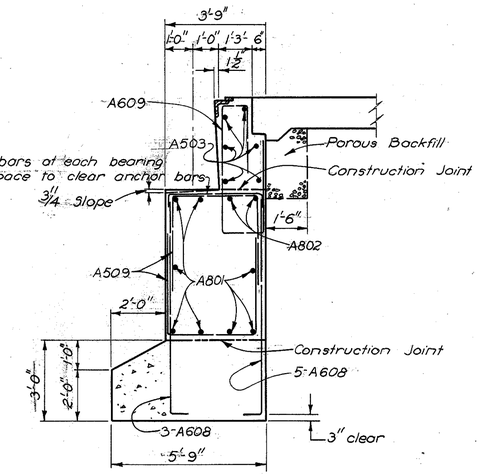
PLAN



FORWARD ABUTMENT END DAM



ELEVATION



SECTION D-D

NOTES:
REINFORCING STEEL in the forword abutment is same as for the rear abutment, except as otherwise noted.

For additional notes and details see "REAR ABUTMENT DETAILS" sheet No. 188

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

FORWARD ABUTMENT DETAILS

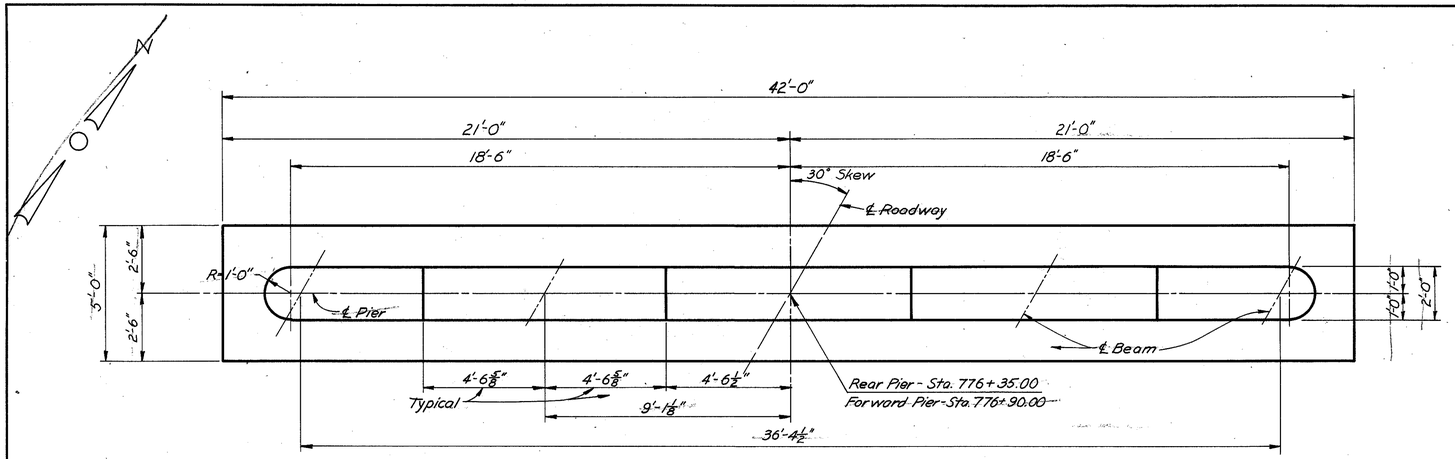
BRIDGE No. ADA-247-1471
OVER CHERRY FORK
ADAMS COUNTY
STA. 775+88.40
STA. 777+36.60

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J E F	J E F	G. P. G.	N.E.V.	BFG	2-28-61	

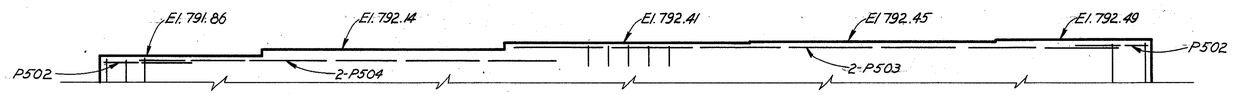
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

190

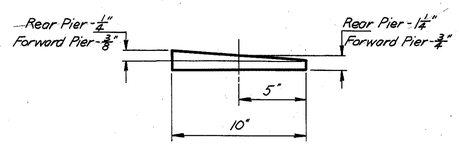
ADAMS COUNTY
ADA-247(8.95)(14.20)



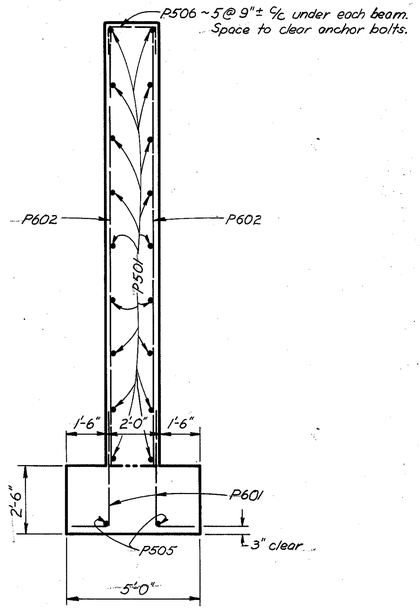
PLAN



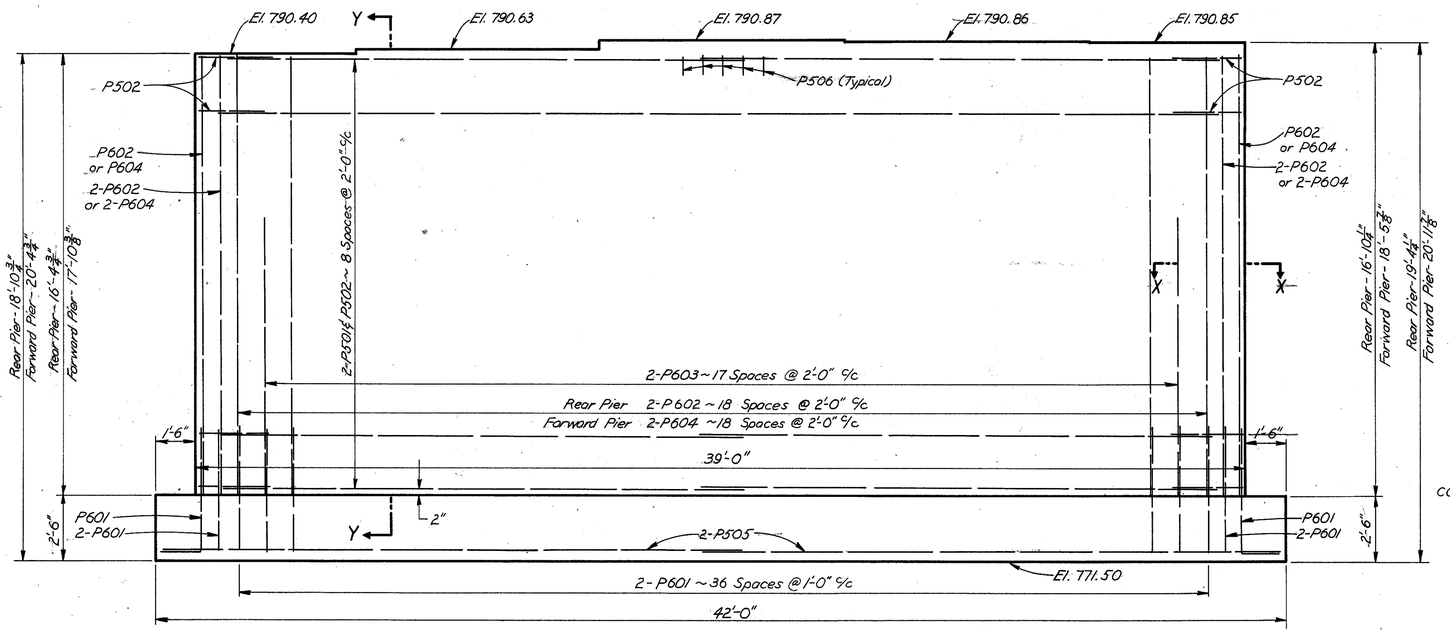
PART ELEVATION
(Forward Pier only)



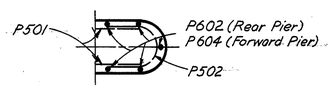
BEVELED SOLE PLATES



SECTION Y-Y



ELEVATION



SECTION X-X

CONCRETE shall be Class "E"

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

PIER DETAILS

BRIDGE No. ADA-247-1471
OVER CHERRY FORK
ADAMS COUNTY
STA. 775+88.40
STA. 777+36.60

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J E F	J E F	A.A.K.	NEY	BFG	2-28-61	

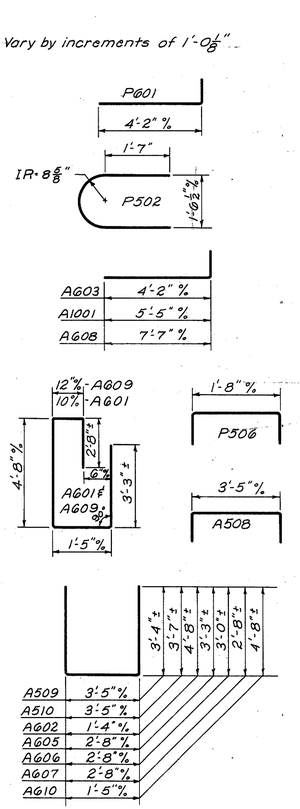
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

191

ADAMS COUNTY
ADA - 247(8.95)(14.20)

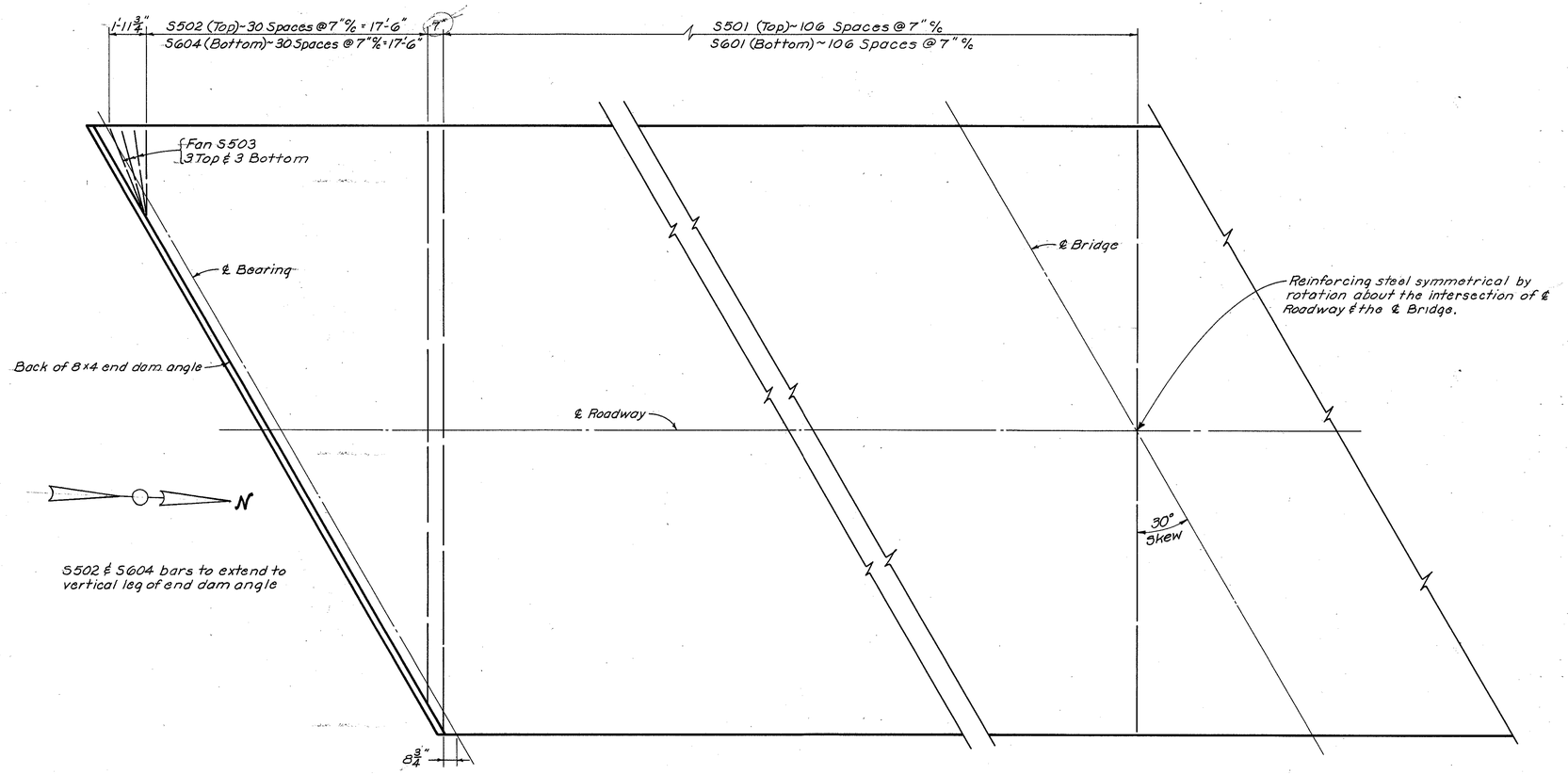
REINFORCING STEEL LIST

MARK	No.	LENGTH	WEIGHT	SHP	BENDING DIAGRAMS
Superstructure					
S601	213	35'-8"	11,411	S	
S602	212	37'-6"	11,941	S	
S603	44	22'-0"	1454	S	
S604	2 Series of 31	34'-8¾" to 4'-5"	1823	S	Vary by increments of 1'-0⅛"
S501	213	35'-8"	7924	S	
S502	2 Series of 31	34'-8¾" to 4'-5"	1266	S	Vary by increments of 1'-0⅛"
S503	12	4'-6"	56	S	
Piers					
P601	160	4'-10"	1161	B	
P602	44	16'-2"	1068	S	
P603	72	11'-6"	1244	S	
P604	44	17'-8"	1168	S	
P501	72	19'-3"	1446	S	
P502	38	4'-5"	175	B	
P503	2	22'-9"	48	S	
P504	2	15'-7"	33	S	
P505	8	21'-8"	181	S	
P506	50	2'-8"	139	B	
Abutments					
A1001	30	6'-6"	839	B	
A1002	30	13'-4"	1721	S	
A901	16	21'-2"	1151	S	
A902	4	27'-6"	374	S	
A801	16	21'-0"	897	S	
A802	4	28'-1"	300	S	
A601	23	12'-2"	420	B	
A602	12	10'-4"	186	B	
A603	18	4'-10"	131	B	
A604	18	10'-5"	282	S	
A605	12	8'-10"	159	B	
A606	12	8'-4"	150	B	
A607	6	7'-8"	69	B	
A608	24	8'-3"	297	B	
A609	23	12'-4"	426	B	
A610	12	10'-5"	188	B	
A501	16	8'-10"	147	S	
A502	12	26'-11"	337	S	
A503	12	27'-7"	345	S	
A504	27	8'-2"	230	S	
A505	6	11'-3"	70	S	
A506	6	8'-4"	52	S	
A507	12	8'-0"	100	S	
A508	50	4'-5"	230	B	
A509	62	9'-9"	631	B	
A510	18	10'-3"	192	B	
A511	4	6'-0"	25	S	
Replacement Bars					
RE1001	1	7'-2"	—	S	
RE901	1	6'-10"	—	S	
RE801	1	6'-6"	—	S	
RE601	2	5'-11"	—	S	
RE501	1	5'-7"	—	S	



REPLACEMENT BARS: If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Highway Testing Laboratory, test samples as provided in Sec. 5-4.02 need not be furnished and replacement bars will not be required.

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 number. For example, A601 is a No.6 size bar and A1001 is a No. 10 size.



PART PLAN OF SUPERSTRUCTURE REINFORCING STEEL

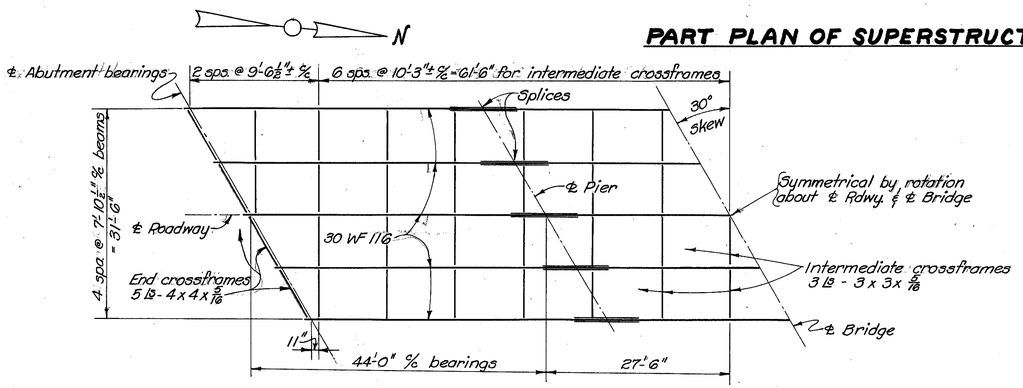


ILLUSTRATION OF FRAMING

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

SUPERSTRUCTURE DETAILS & REINFORCING STEEL LIST

BRIDGE No. ADA-247-1471
OVER CHERRY FORK
ADAMS COUNTY Sta. 775+88.40
776+36.60

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
J E F	J E F	Pratt	NEY	BFG	2-28-61	

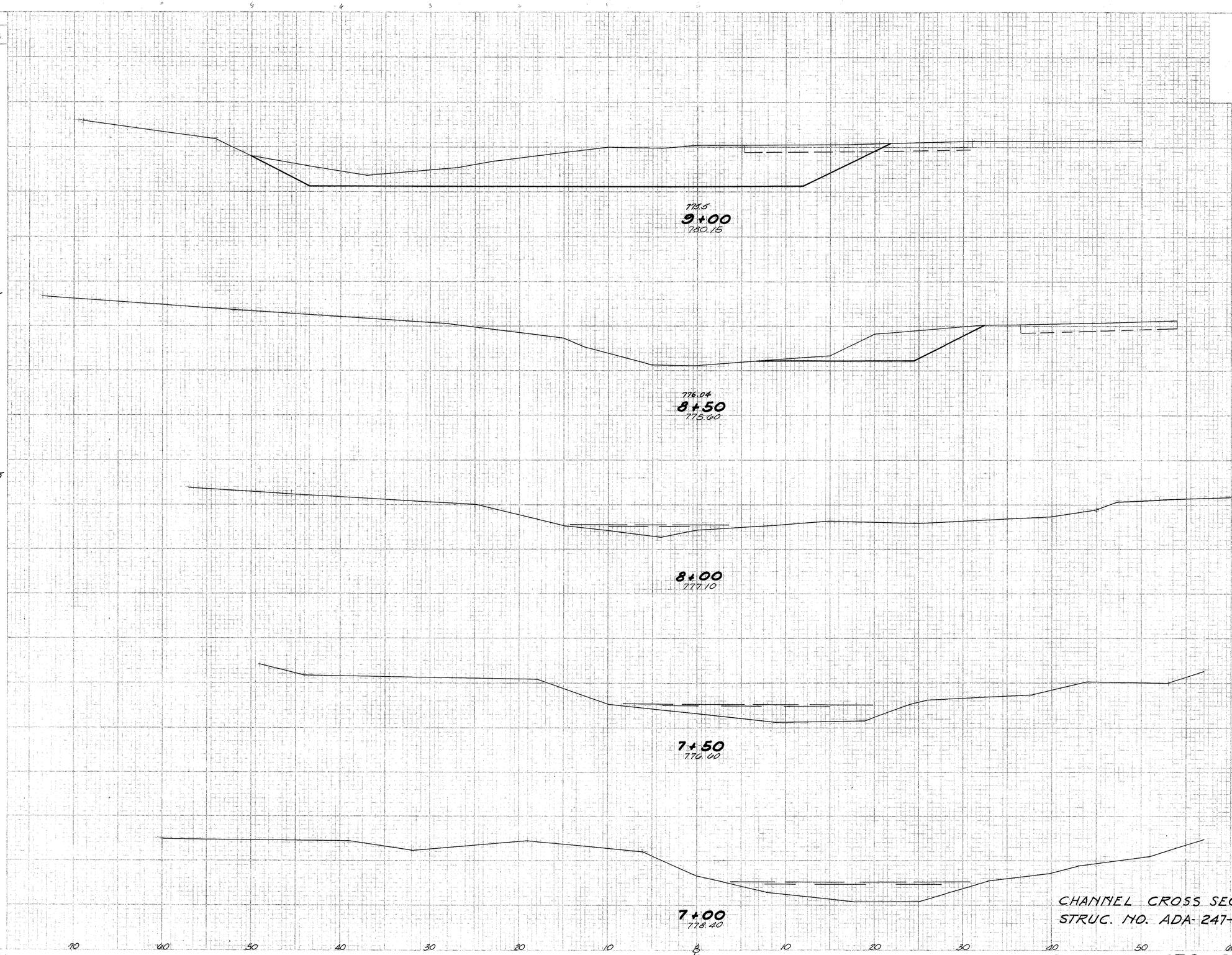
FED RD DIVISION	STATE	PROJECT	
2	OHIO		

192

ADAMS COUNTY
ADA - 247 -(8.95)(14.20)

SEEDING

END WIDTH	SQ YDS
18	75
9	25
0	



	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	213	0		
			235	0
	40	0		
			37	0
	0	0		

ESTIMATED QUANTITIES

Item E-3 Channel Excavation	1210	Cu. Yds
Item I-10 Dumped Rock Channel Protection	300	Cu. Yds
Item 659 Seeding	445	Sq. Yds

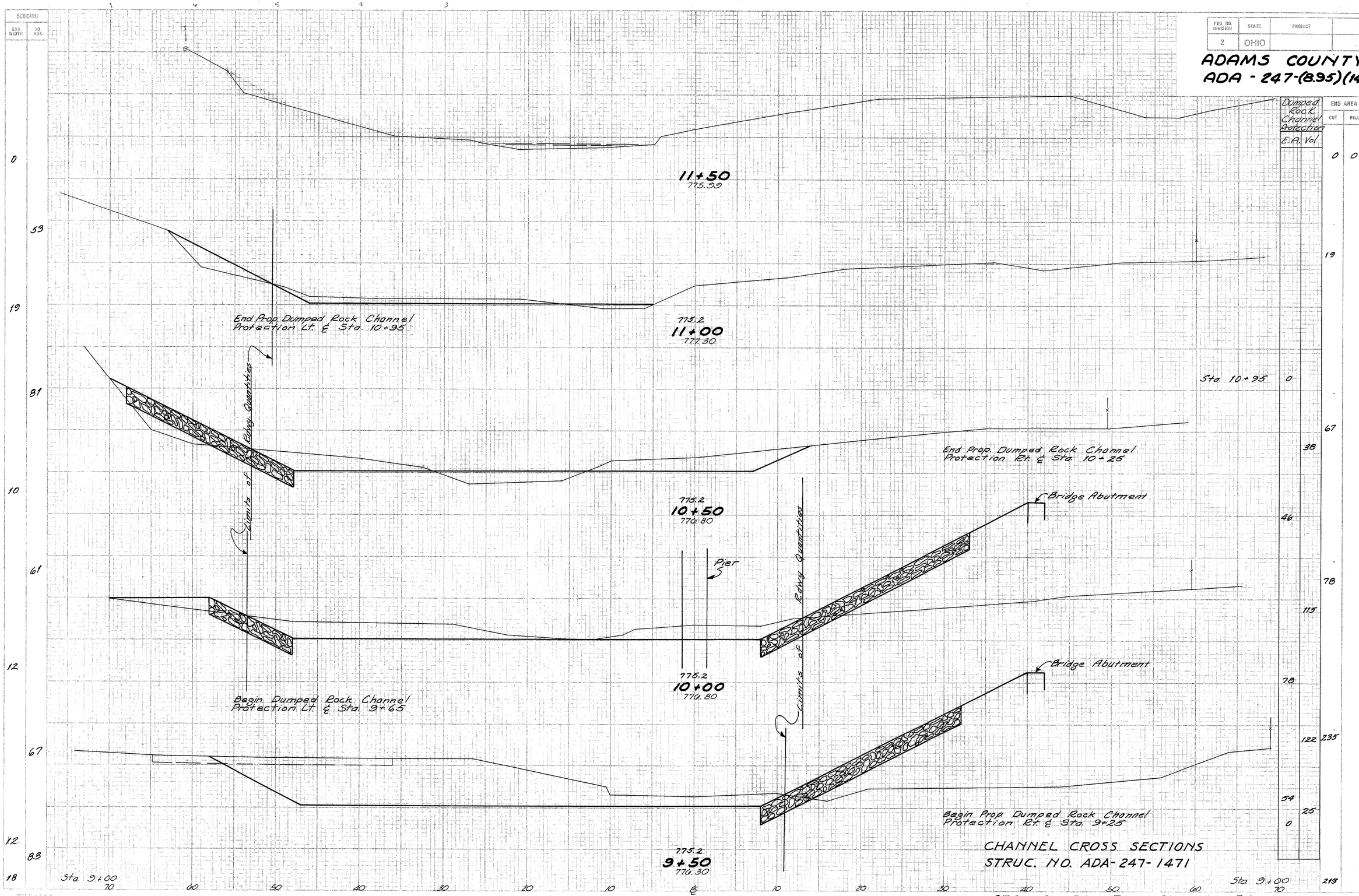
CHANNEL CROSS SECTIONS
STRUC. NO. ADA-247-1471

STA. 7+00 TO STA. 9+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

193

ADAMS COUNTY
ADA - 247-(8.95)(14.20)



Dumped Rock Channel Protection E.A. Vol.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	0	0		
			18	
	19			
			80	
Sta. 10+95	0			
	67			
	38			
			135	
	46			
	78			
	115			
			290	
	78			
	122		235	
	54			
	25		415	
	0			
			213	

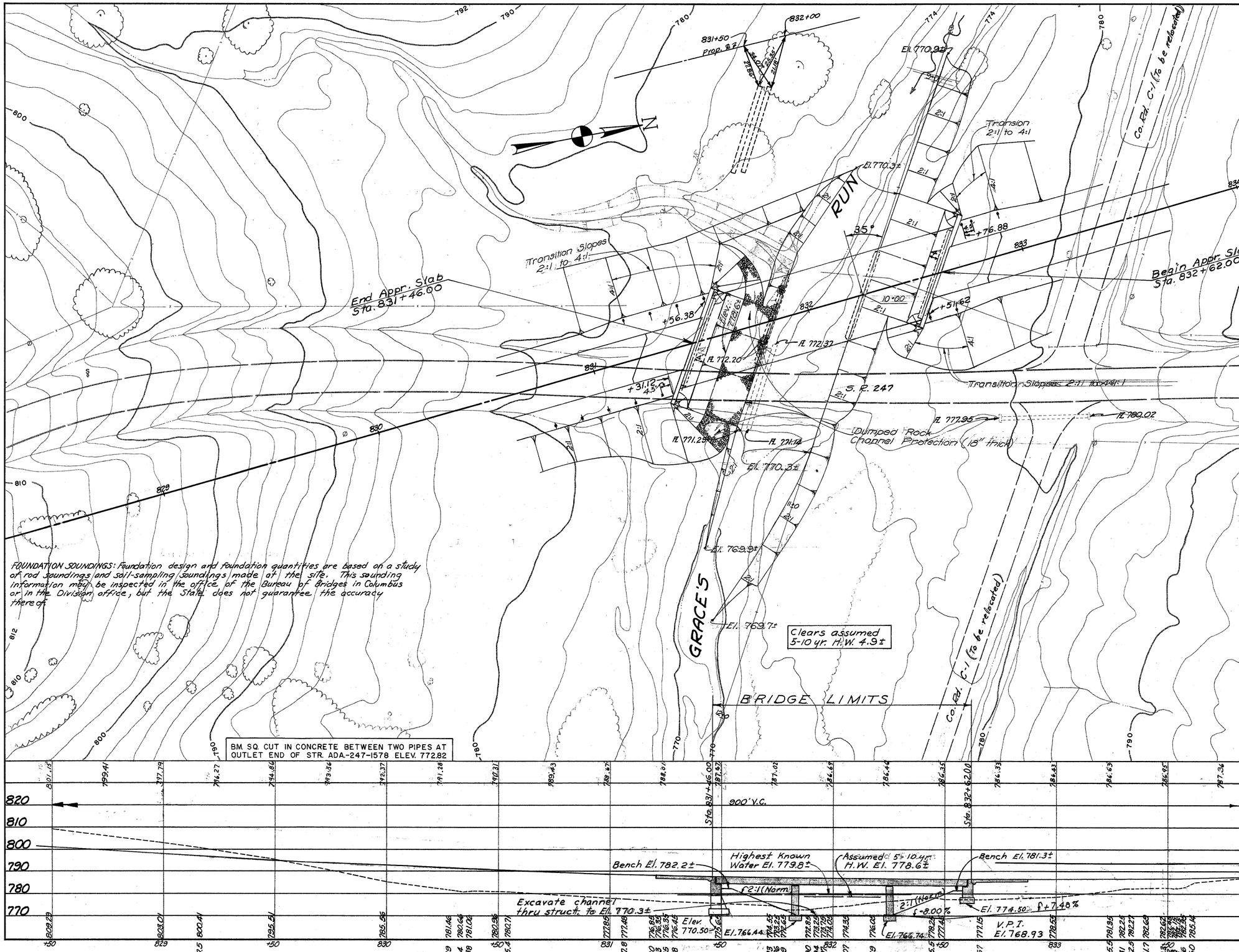
CHANNEL CROSS SECTIONS
STRUC. NO. ADA-247-1471

STA. 9+50 TO STA. 11+50

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

194

ADAMS COUNTY
ADA-247-(8.95)(14.20)
1.4± mi. South of Seaman Corp.



FOUNDATION SOUNDINGS: 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 does not guarantee the accuracy thereof.

BM. SQ. CUT IN CONCRETE BETWEEN TWO PIPES AT OUTLET END OF STR. ADA-247-1578 ELEV. 772.82

EXISTING BRIDGE DATA

Bridge No.	ADA-247-1578
Type	C.I.P.
Span	2 - 24"x40'
Roadway	17'
Skew	16° L.F.

DRAINAGE AREA = 60 Ac.

PROPOSED STRUCTURE

TYPE: Continuous steel beam with reinforced concrete deck and reinforced concrete substructure.
SPANS: 34'-42.5'-34' c/c brgs.
ROADWAY: 36'-0" f/f guard rails.
LOAD FREQUENCY: CF=130(57).
SKEW: 35° L.F.
WEARING SURFACE: 3/4" monolithic concr.
APPROACH SLABS: AS-1-54 (25' long)
ALIGNMENT: Tangent.

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

SITE PLAN

BRIDGE NO. ADA-247-1578
over GRACE RUN
ADAMS CO. SR-247

SEC. STA. 831+46.00
SCALE 1" = 20' 832+62.00

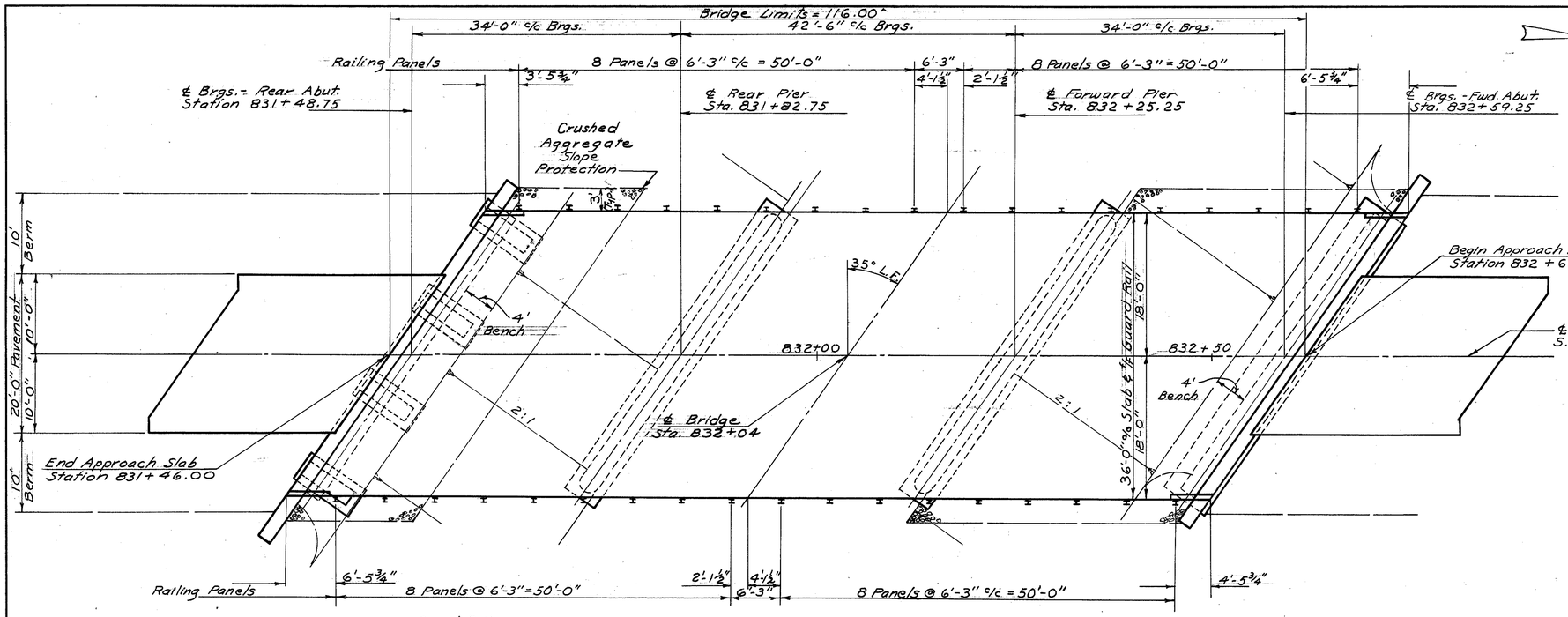
PRESENT TOPOGRAPHY		PROPOSED WORK			
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
Aerial Survey	Aerial Survey	DGM	DGM	B.D.H	P.E.S.

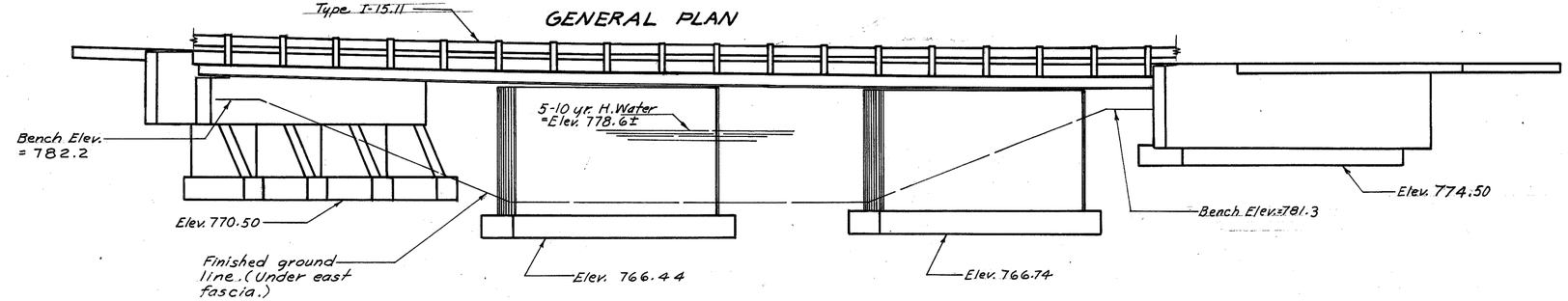
BFG A.J.T. 1-23-61

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

195

ADAMS COUNTY
ADA-247(8.95)(14.20)





GENERAL PLAN

ELEVATION

REFERENCE shall be made to Standard Drawing CSB-1-55 sheets 1, 2 and 6, revised 2-2-59.

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57 together with current revisions thereof.

EXCAVATION QUANTITY for the rear abutment includes the removal of fill material between the top of the earth bench and the bottom of the abutment crossbeam.

FOOTINGS shall extend a minimum of 3" into solid rock or to the elevation shown, whichever is lower.

FOUNDATION BEARING PRESSURE: Rear abutment footings, pier footings and forward abutment footing are designed for a maximum bearing pressure of 4.5 tons, 3.0 tons and 2.5 tons per sq. ft. respectively.

SLAB THICKNESS is 7¼" which includes ¾" for monolithic wearing surface.

CRUSHED AGGREGATE SLOPE PROTECTION as per Section I-10.04 shall extend from the face of the rear abutment down to elev. 778.6± and from the face of the forward abutment down to the flow line of the channel.

MACHINE FINISH: At the Contractor's option, the concrete bridge deck may be finished by the use of a finishing machine.

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Super.	Abuts.	Piers	Gen'l.
E-2	Lump	Sum	Cofferdams, cribs and sheeting				Lump
E-2	114	Cu. yds.	Unclassified excavation		95	19	
E-2	64	Cu. yds.	Rock excavation		18	46	
E-3	1118	Cu. yds.	Channel excavation				1118
S-1	102	Cu. yds.	Class "C" concrete, superstructure	102			
S-1	109	Cu. yds.	Class "E" concrete, abutments above footing		109		
S-1	114	Cu. yds.	Class "E" concrete, pier walls			114	
S-1	72	Cu. yds.	Class "E" concrete, footings		35	37	
S-4	39,886	Lbs.	Reinforcing steel	27,614	7,488	4,784	
S-7	69,400	Lbs.	Structural steel	69,400			
S-8	69,400	Lbs.	Field painting of structural steel	69,400			
S-14	232.00	Lin. ft.	Railing (Type I-15.11 with galvanized steel posts and bolts)	232.00			
S-24	Lump	Sum	Removal of existing structure				Lump
S-29	34	Cu. yds.	Porous backfill		34		
I-10	234	Sq. yds.	Crushed aggregate slope protection				234
I-10	150	Cu. yds.	Dumped rock channel protection				150

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

GENERAL PLAN & ELEVATION NOTES & QUANTITIES

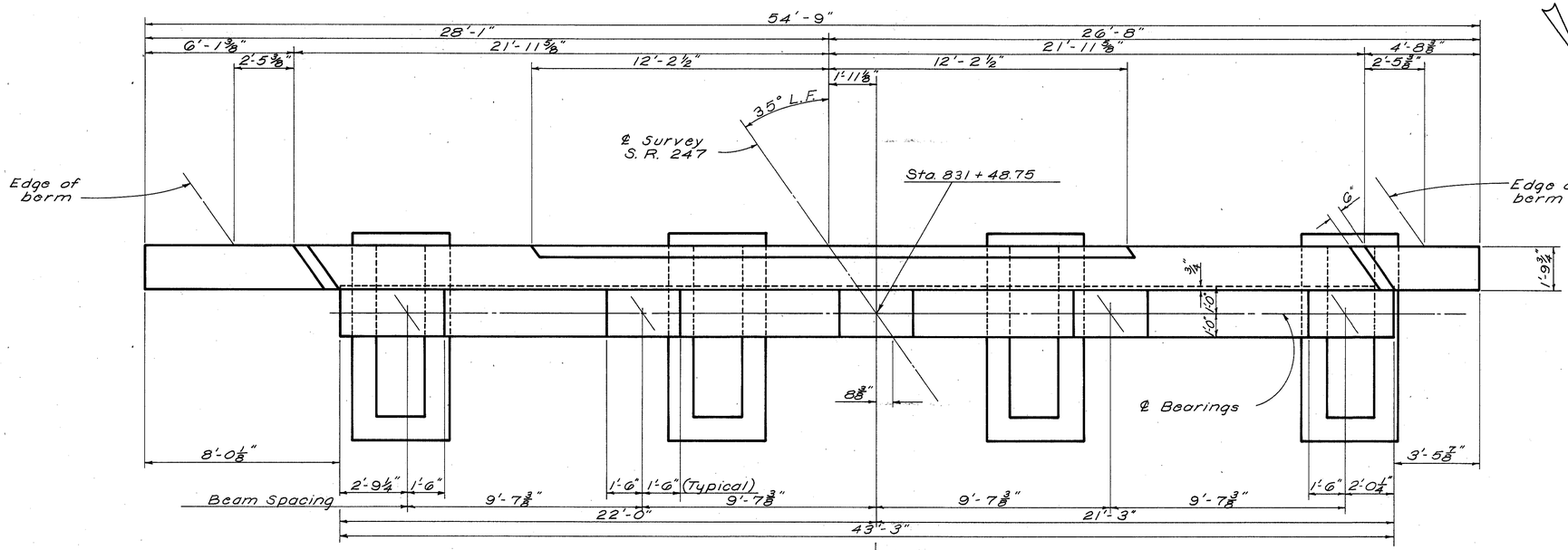
BRIDGE No. ADA-247-1578
over GRACE RUN
Sta. 831+46.00
ADAMS COUNTY Sta. 832+62.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
E.J.S.	E.J.S.	N.L.D.	J.D.R.	BFG	1-23-61	

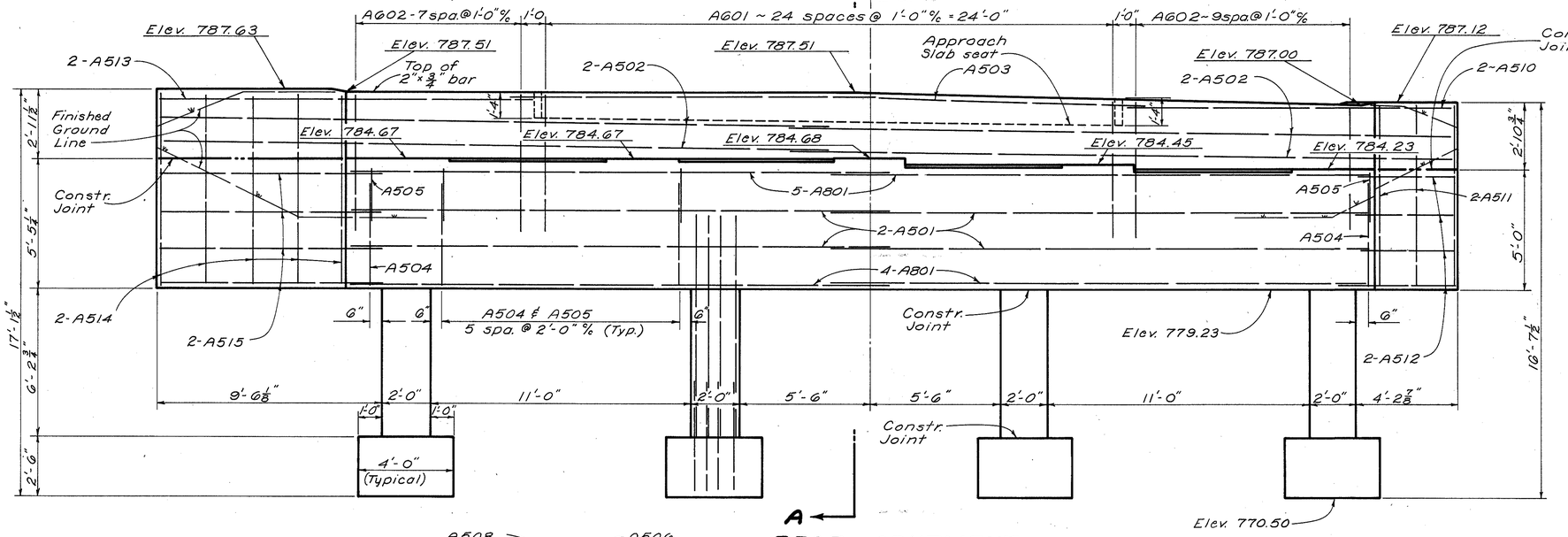
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

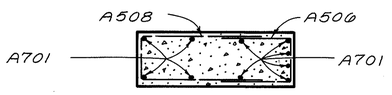
196

ADAMS COUNTY
ADA-247(8.95)(14.20)



PLAN





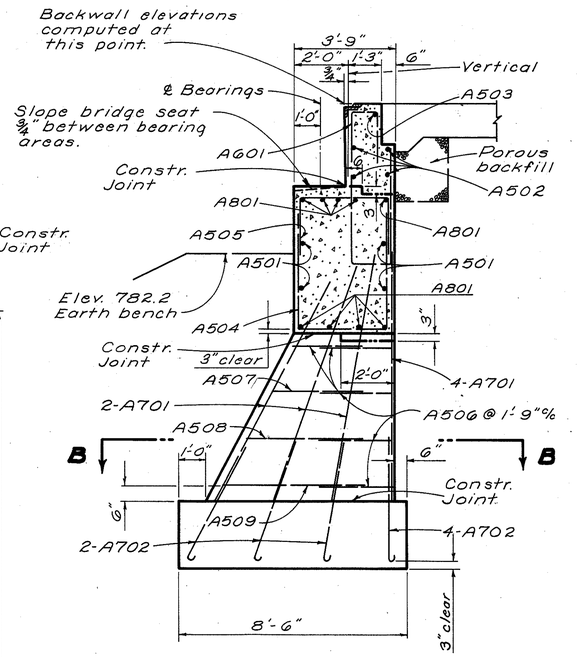
SECTION B-B

EMBANKMENT PROCEDURE: After the pedestals are placed the earth fill shall be made to the height of the earth bench and the excavation made for the crossbeam.

POROUS BACKFILL, 2 ft. thick, shall extend upward to the approach slab or to the surface of the earth shoulders, and outward to the surface of the embankment slopes. The bottom of the porous backfill shall vary from elev. 784.1 at ℄ Survey to elev. 783.1 at the wing extremities.

Excavation in excess of that required for construction of the abutment shall be considered as paid for in the unit price paid for porous backfill.

CONCRETE shall be Class "E".



SECTION A-A

NOTE: The Contractor shall space the reinforcing bars in the bridge seat to insure clearance for the bearing anchor bars.

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

REAR ABUTMENT DETAILS

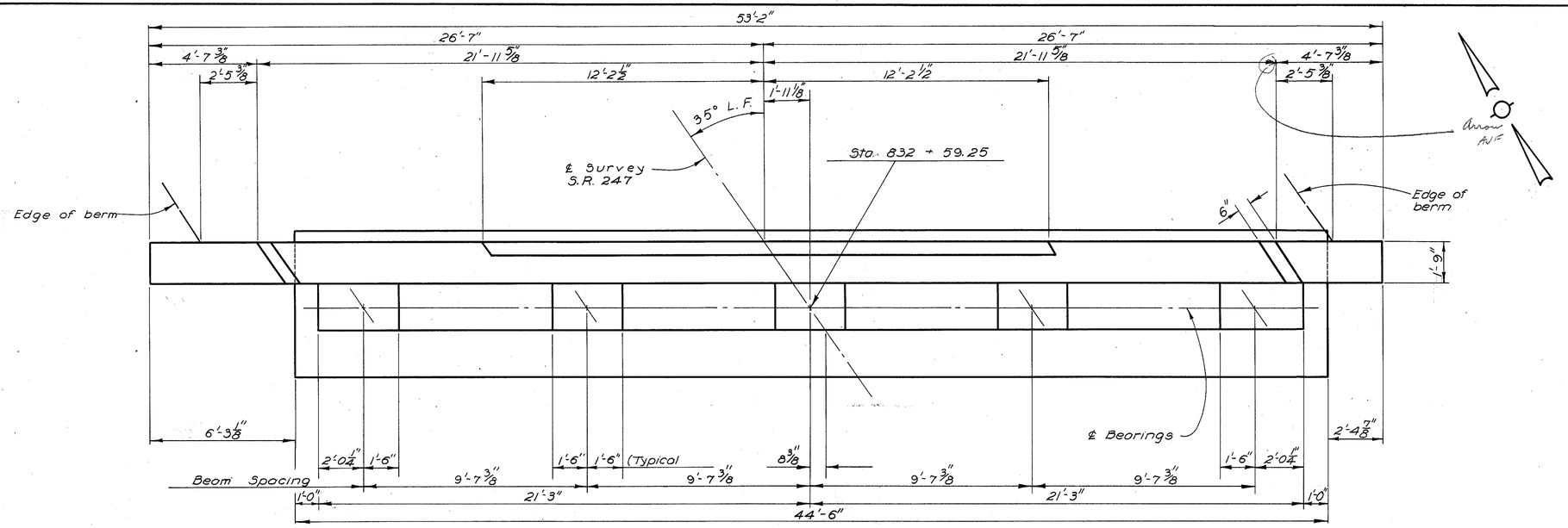
BRIDGE No. ADA-247-1578
Over Grace Run
Sta. 831+46.00
Sta. 832+62.00
Adams County

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
E.J.S.	E.J.S.	Pensyl	J.D.R.	BFG	1-23-61	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

197

ADAMS COUNTY
ADA-247(8.95)(14.20)

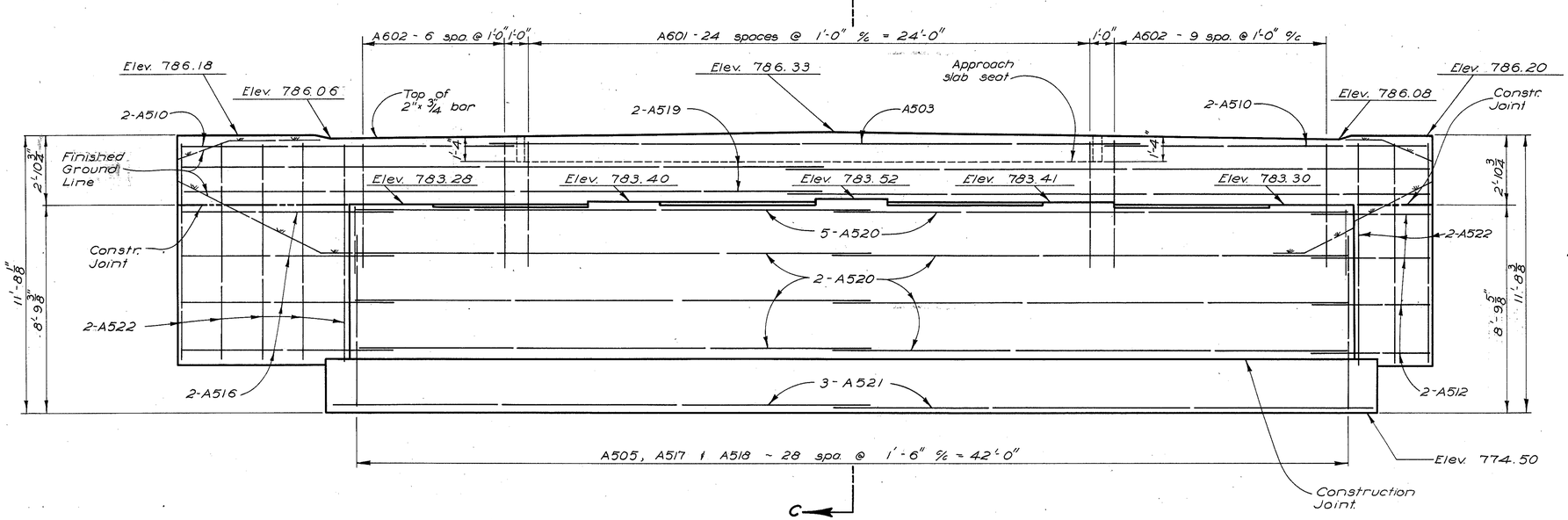


PLAN

POROUS BACKFILL, 2 ft. thick, shall extend upward to the approach slab or to the surface of the earth shoulders, and outward to the surface of the embankment slopes. The bottom of the porous backfill shall vary from elevation 783.0 at the ℄ Survey, to elevation 782.0 at the wing extremities. Excavation in excess of that required for construction of the abutment shall be considered as paid for in the unit price paid for porous backfill.

CLEARANCE: The Contractor shall space the reinforcing bars in the bridge seat to insure clearance for the bearing anchor bars.

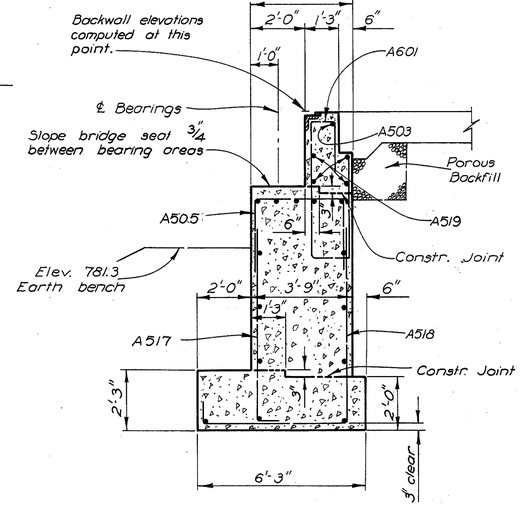
CONCRETE shall be Class "E."



C

C

FORWARD ABUTMENT ELEVATION



SECTION C-C

Longitudinal bars not marked :
In Footing : A521
All others : A520

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

FORWARD ABUTMENT DETAILS

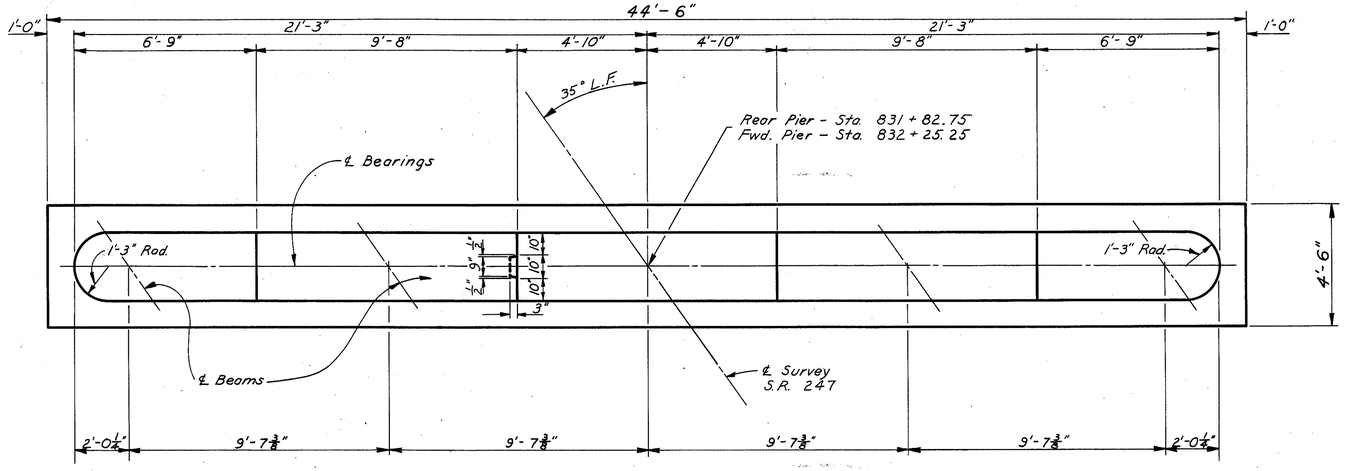
BRIDGE No. ADA-247-1578
Over Grace Run
Adams County
Sta. 831 + 46.00
Sta. 832 + 62.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
E.J.S.	E.J.S.	G.P.G.	J.D.R.	BFG	1-23-61	

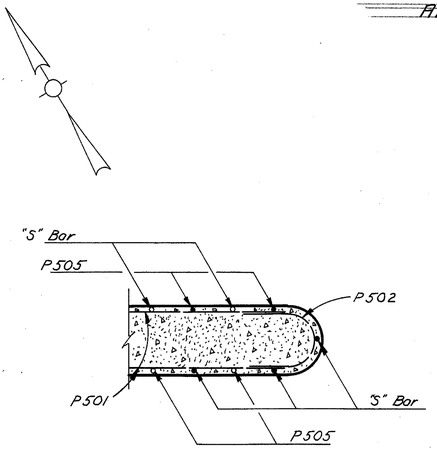
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

198

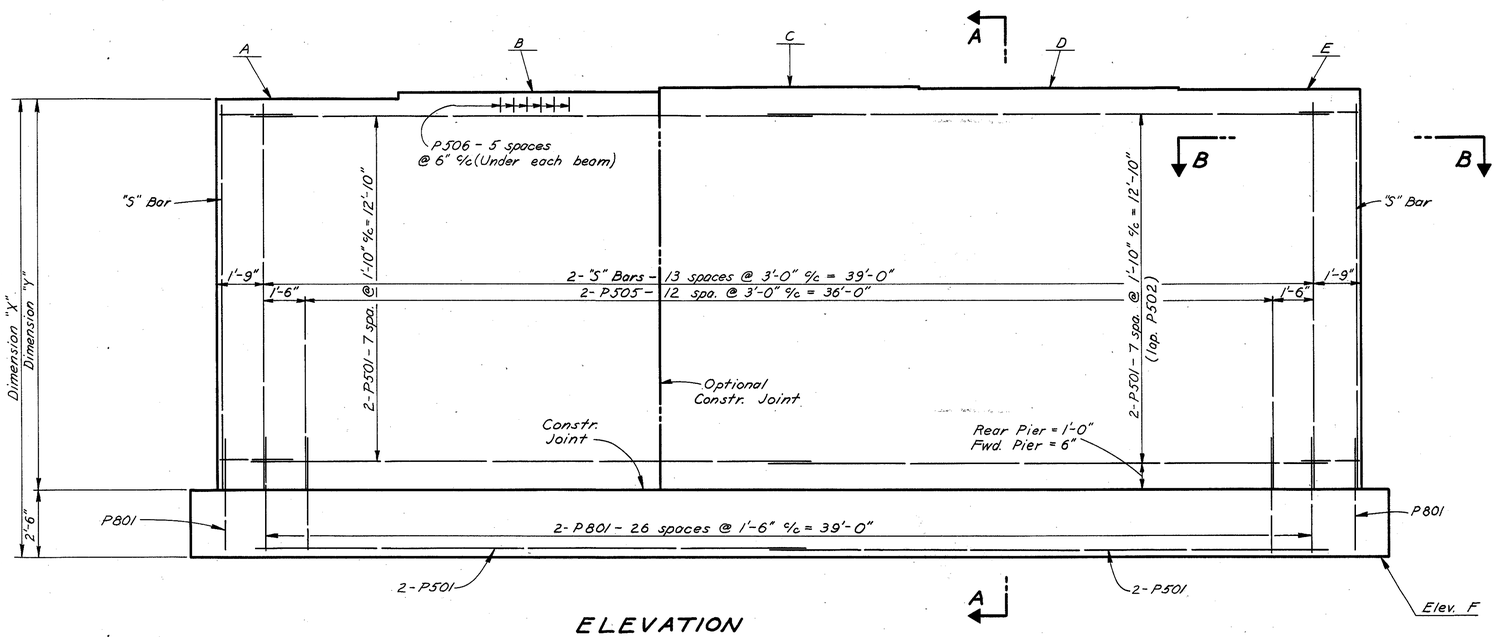
ADAMS COUNTY
ADA-247(8.95)(14.20)



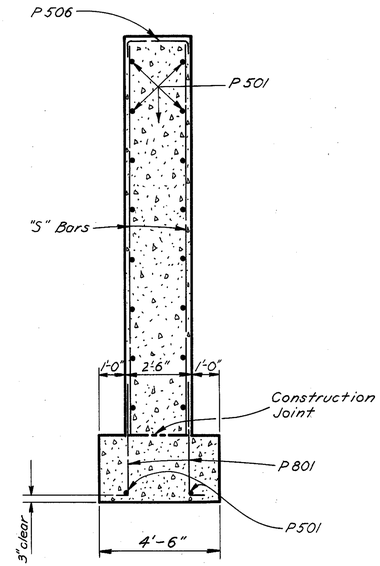
PLAN



SECTION B-B



ELEVATION



SECTION A-A

Elevations	A	B	C	D	E	F	Dim. "X"	Dim. "Y"	"S" Bars
Rear Pier	783.77	783.97	784.17	784.12	784.09	766.44	17'-4"	14'-10"	P503
Fwd. Pier	783.32	783.48	783.64	783.55	783.48	766.74	16'-7"	14'-1"	P504

Note: The Contractor shall space the reinforcing steel in the bridge seat to insure clearance for the bearing anchor bars.

CONCRETE shall be Class "E"

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

PIER DETAILS

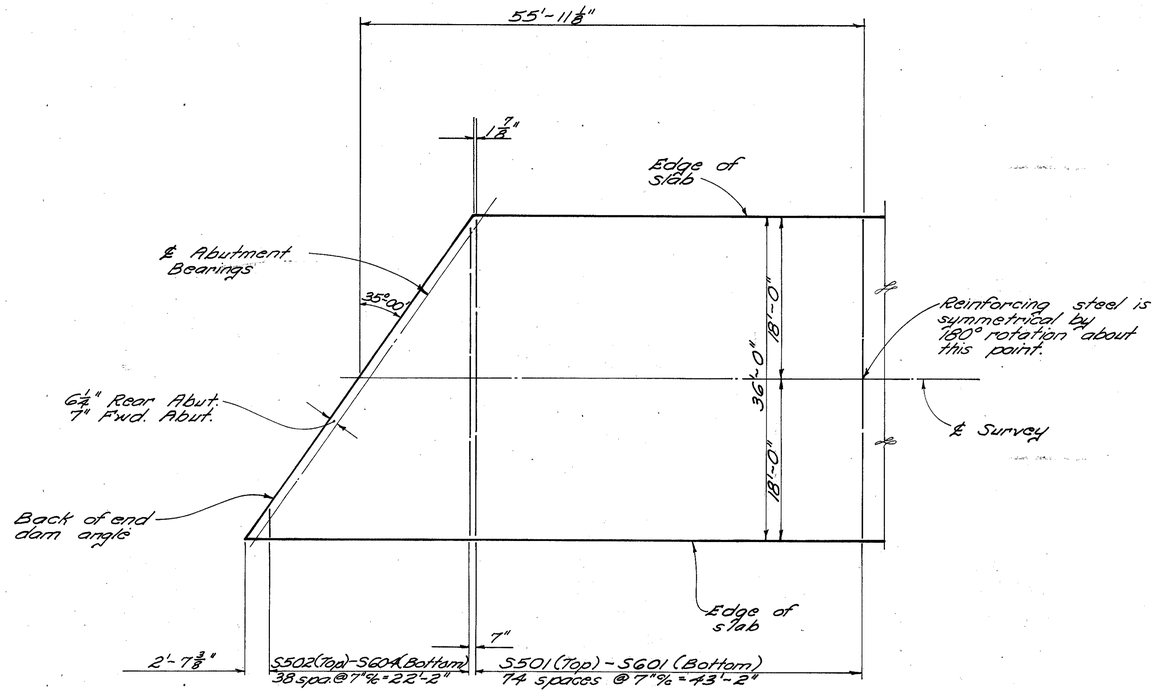
BRIDGE № ADA-247-1578
Over Grace Run
Sta. 831+46.00
Adams County Sta. 832+62.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
E.J.S.	E.J.S.	AAK.	J.D.R.	BFG	4-23-61	

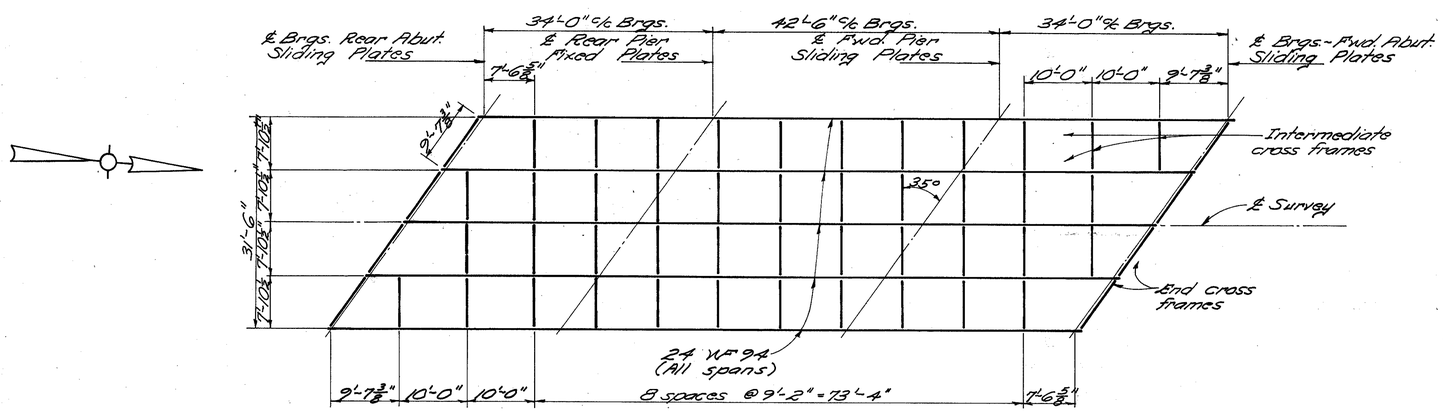
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

199

ADAMS COUNTY
ADA-247(8.95)(14.20)



PARTIAL PLAN OF SLAB
Showing transverse reinforcing



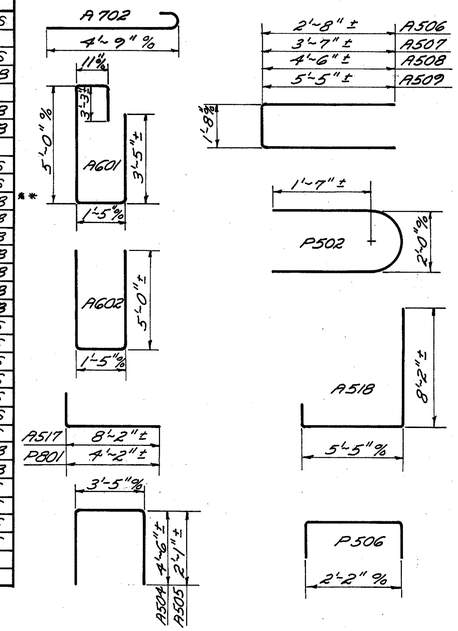
STEEL FRAMING PLAN

REINFORCING STEEL LIST

MARK	No.	LENGTH	WEIGHT	SHP
ABUTMENTS				
A801	18	22'-9"	1,093	S
A701	40	9'-3"	756	S
A702	40	5'-7"	456	B
A601	50	13'-4"	1001	B
A602	35	11'-1"	583	B
A501	8	23'-3"	186	S
A502	8	28'-0"	234	S
A503	2	27'-9"	58	B
A504	20	12'-2"	254	B
A505	49	7'-4"	375	B
A506	20	6'-9"	141	B
A507	4	8'-7"	36	B
A508	4	10'-5"	43	B
A509	4	12'-3"	51	B
A510	6	14'-0"	88	S
A511	6	7'-5"	46	S
A512	16	5'-0"	83	S
A513	2	15'-8"	33	S
A514	10	7'-11"	83	S
A515	8	9'-8"	81	S
A516	8	8'-11"	74	S
A517	29	8'-8"	262	B
A518	29	14'-0"	423	B
A519	8	27'-3"	227	S
A520	22	21'-11"	503	S
A521	6	22'-11"	143	S
A522	16	9'-3"	154	S

** Bend in Field.

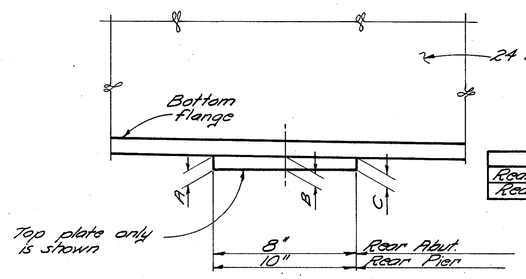
BENDING DIAGRAMS



MARK	No.	LENGTH	WEIGHT	SHP
PIERS				
P801	112	5'-1"	1520	B
P501	72	20'-10"	1564	S
P502	32	6'-2"	206	B
P503	30	14'-8"	457	S
P504	30	13'-11"	435	S
P505	52	7'-5"	402	S
P506	60	3'-2"	198	B
SUPERSTRUCTURE				
S601	149	35'-8"	7,982	S
S602	153	38'-6"	9,194	S
S603	44	17'-0"	1,123	S
S604	2 series of 39 bars	3'-2" to * 34'-10"	2,226	S
S501	149	35'-8"	5,543	S
S502	2 series of 39 bars	3'-2" to * 34'-10"	1,546	S
* Varies by 10" increments				
REPLACEMENT BARS				
RE801	1	6'-6"	—	S
RE701	1	6'-2"	—	S
RE601	2	5'-11"	—	S
RE501	1	5'-7"	—	S

BAR SIZE is indicated in the bar mark. The first digit indicates the bar size number. For example A801 is a number 8 size bar.

REPLACEMENT BARS: If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Highway Testing Laboratory, test samples as provided in Sec. S-402 need not be furnished and replacement bars will not be required.



	A	B	C
Rear Abut.	1 3/8"	3 3/4"	11"
Rear Pier	1 5/16"	1 1/4"	1 3/16"

DETAIL OF BEVELED BEARING PLATE
Note: Forward pier and abutment plates are not to be beveled.

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

SUPERSTRUCTURE DETAILS AND STEEL LIST

BRIDGE NO ADA-247-1578
OVER GRACE RUN
STA. 831+46.00
ADAMS COUNTY STA. 832+62.00

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
E.J.S.	E.J.S.	Meglan	J.D.R.	BFG	1-23-61	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

200

ADAMS COUNTY
ADA - 247 - (8.95)(14.20)

SEEDING

END WIDTH	SQ. YDS
24	111
16	105
22	61
0	

Limits of Rdwy Quantities

770.5
10+00
776.49

Limits of Rdwy Quantities

Begin Prop. Dumped Rock Channel Protection Rt & Sta. 9+36

770.7
9+50
776.49

770.8
9+00
772.17

770.8
8+50
772.07

Dumped Rock Channel Protection		END AREA		VOLUME	
E.A.	Vol	CUT	FILL	CUT	FILL
38					
	35	178	0		
0	0			249	0
		91	0		
		113	1		
		31	1		
		29	1		
		0	0		

ESTIMATED QUANTITIES

Item E.3 Channel Excavation	1118 Cu Yds
Item I.10 Dumped Rock Channel Protection	150 Cu. Yds.
Item L.9 Seeding	533 Sq Yds

CHANNEL CROSS SECTIONS
STRUC. NO. ADA-247-1578

70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70

STA. 8+50 TO STA. 10+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

201

ADAMS COUNTY
ADA - 247-(8.95)(14.20)

| SECTIONS | | |

FED. AID DIVISION	STATE	PROJECT		202
2	OHIO			

ADAMS COUNTY
ADA - 247 - (8.95)(14.20)

SECTIONS

| SHT NUMB | NO. TOT. | | |

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

ADAMS COUNTY
ADA-247-(8.95)(14.20)
LOCATION PLAN

LOCATION PLAN

STATE OF OHIO DEPARTMENT OF HIGHWAYS

STATE ROUTE 247 SECTION (8.95) (14.20)

VIRGINIA MILITARY SURVEYS: 3203, 5343, 8542, 14428, 15108, 15359, 14757, 14573, 14569, 1786, 3939, 3950, 14524, 143, 1024, 1791

ADAMS COUNTY- TIFFON, WAYNE & OLIVER TOWNSHIPS

SCALE: 1" = 400'

PROG CURVE DATA

Ⓐ P.I. STA. 494+10.77
Δ = 3°07'30" Lt.
D_c = 0°45'
L_c = 416.67'
R = 7639.44'
T = 208.40'
E = 2.84'

Ⓑ
Δ = 4°00'
L_c = 133.33'
R = 1910.04'
T = 66.70'
D_c = 2.999717°

Ⓒ
Δ = 11°31'
L_c = 287.92'
R = 1432.40'
T = 144.45'
D_c = 4°00'

Ⓓ
Δ = 4°00'
D_c = 2.999717°
L = 1333.33'
R = 1910.04'
T = 66.70'

Ⓔ
Δ = 4°00'
D_c = 3°02'16"
L_c = 131.16
R = 1878.70
T = 65.61'

Ⓕ
Δ = 11°32'45"
D_c = 4°00'
R = 1432.40'
T = 146.40'
L_c = 288.65'

Ⓖ
Δ = 4°00'
D_c = 3°02'16"
L = 131.16'
R = 1878.70'
T = 65.61'

Ⓗ
Δ = 3°00'
D_c = 2.250061°
L = 133.33'
R = 2546.41'
T = 66.68'

Ⓘ
Δ = 3°23'30"
D_c = 3°00'
L_c = 113.05'
R = 1909.86'
T = 56.55'

Ⓙ
Δ = 3°00'
D_c = 2.250061°
L_c = 133.33'
R = 2546.41'
T = 66.68'

Ⓚ
Δ = 4°00'
D_c = 2.999717°
L = 133.33
R = 1910.04'
T = 66.70'

Ⓛ
Δ = 13°35'
D_c = 4°00'
L = 339.58'
R = 1432.40'
T = 170.59'

Ⓜ
Δ = 4°00'
D_c = 2.999717°
L = 1333.33
R = 1910.04
T = 66.70

Ⓝ
Δ = 3°00'
D_c = 2.250061°
R = 2546.41'
L = 133.33'
T = 66.68'

Ⓞ
Δ = 4°33'45"
D_c = 3°00'
R = 1909.86'
L = 152.08'
T = 76.08'

Ⓟ
Δ = 3°00'
D_c = 2.250061°
R = 2546.41'
L = 133.33'
T = 66.68'

Ⓠ
P.I. STA 393+08.20
Δ = 2°36' Lt.
D_c = 1°00'
R = 5729.58'
L = 260.00'
T = 130.02'
E = 1.47'

Ⓡ
Δ = 3°00'
D_c = 2°15'
R = 2546.41'
L = 133.33'
T = 66.68'

Ⓢ
Δ = 4°03'30"
D_c = 3°00'
R = 1909.86
L = 135.23'
T = 67.67'

Ⓣ
Δ = 3°00'
D_c = 2°15'
R = 2546.41'
L = 133.33'
T = 66.68'

Ⓤ
Δ = 4°00'
D_c = 2.9997°
R = 1910.04'
L = 133.33'
T = 66.70'

Ⓥ
Δ = 10°40'45"
D_c = 4°00'
R = 1432.40
L = 266.98'
T = 133.88'

Ⓦ
Δ = 4°00'
D_c = 2.9997°
R = 1910.04'
L = 133.33'
T = 66.70'

Ⓧ
Δ = 4°00'
D_c = 2.9997°
R = 1910.04'
L = 133.33'
T = 66.70'

Ⓨ
Δ = 10°11'15"
D_c = 4°00'
R = 1432.40'
L = 254.69'
T = 127.68'

Ⓩ
Δ = 4°00'
D_c = 2.9997°
R = 1910.04'
L = 133.33'
T = 66.70'

BEGIN PROJECT STA. 473+00
P.I. STA 473+12.47 Δ = 2°06'30" Lt.
V.M.S. 3203
V.M.S. 5343
400+00
485+00
P.I. STA 485+95.28 Δ = 0°30'30" Lt.
490+00
P.C. STA 492+02.37
P.I. STA 496+19.04
CREEK
Lick Run
STA 496+00
V.M.S. 8542
V.M.S. 14428
500+00
505+00
P.I. STA 505+24.99 Δ = 24°33'05" Rt.
V.M.S. 8542
V.M.S. 14428
510+00
B C D
P.C. STA 505+01.87
3C. STA 509+33.20
C.S. STA 509+53.16
P.T. STA 510+06.45
N8°00'W
V.M.S. 14428
V.M.S. 15108
V.M.S. 15108
V.M.S. 14428
P.C. STA 515+26.64
3C. STA 519+53.10
C.S. STA 523+31.01
P.T. STA 523+79.57
N11°31'E
E F G
V.M.S. 15359
V.M.S. 14428
V.M.S. 15359
V.M.S. 15108
V.M.S. 14573
V.M.S. 14569
EXISTING S.R. # 247
P.C. STA 529+52.99
3C. STA 533+46.32
C.S. STA 539+33.10
P.T. STA 543+46.64
540+00
545+00
N8°01'45"W
V.M.S. 14569
V.M.S. 1786
V.M.S. 14573
V.M.S. 14569
550+00
P.C. STA 551+51.67
3C. STA 552+05.00
C.S. STA 556+98.00
P.T. STA 557+31.32
555+00
560+00
H I J
CR. No. 10
STA 549+50.50
N17°25'15"W
V.M.S. 3939
V.M.S. 1786
V.M.S. 14573
V.M.S. 14569
V.M.S. 14569
V.M.S. 3950
V.M.S. 3950
V.M.S. 14524
565+00
570+00
575+00
580+00
585+00
590+00
595+00
600+00
605+00
610+00
615+00
620+00
625+00
630+00
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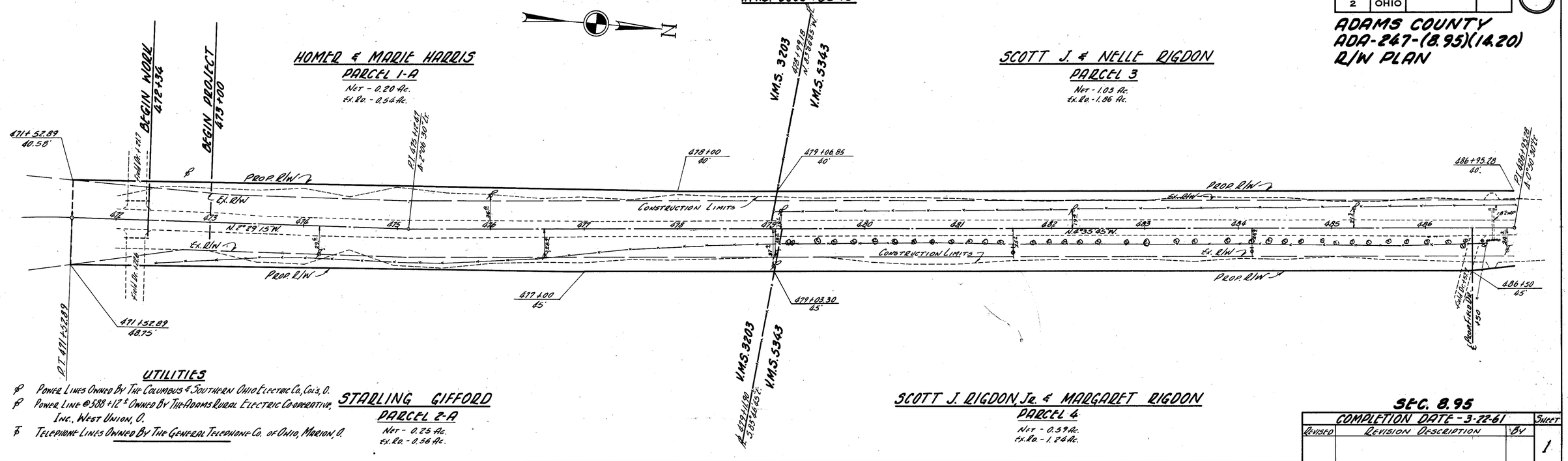
690+00
695+00
700+00
705+00
710+00
715+00
720+00
725+00
730+00
735+00
740+00
745+00
750+00
755+00
760+00

Note: For R/W Summary, See Sheet 8 of 8.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

ADAMS COUNTY
ADA-247-(8.95)(14.20)
R/W PLAN

TIFFIN TWP.
V.M.S. 3203 & 5343



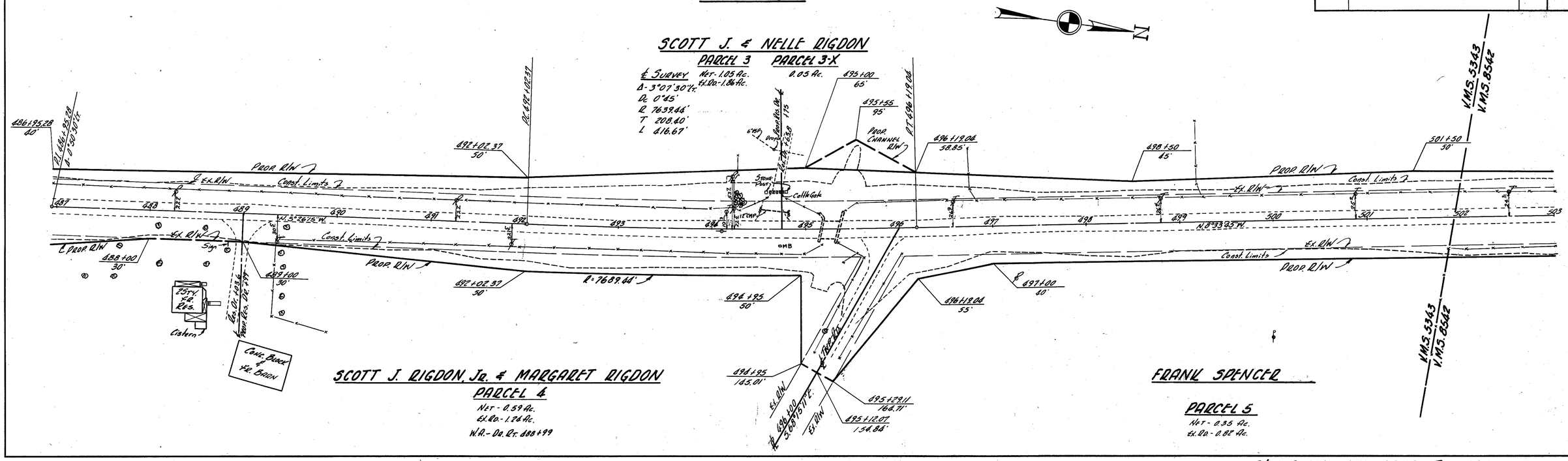
UTILITIES

- Power Lines Owned By The Columbus & Southern Ohio Electric Co., Cols., O.
- Power Line @ 588+17 ± Owned By The Adams Rural Electric Cooperative, Inc., West Union, O.
- Telephone Lines Owned By The General Telephone Co. of Ohio, Marion, O.

SEC. 8.95

COMPLETION DATE - 3-22-61			SHEET
REVISED	REVISION DESCRIPTION	BY	1
			8

TIFFIN TWP.
V.M.S. 5343 & 8542



R/W PLAN - 471+52.89 To 503+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

ADAMS COUNTY
ADA-247-(8.95)(14.20)
R/W PLAN

TIFFIN TWP.
V.M.S. 8542 & 14428

SCOTT J. & NELLE RIGDON
PARCEL 3
Net- 1.05 Ac.
Ex. Rd.- 1.86 Ac.

W.R. & LILLIE F. VANLANDINGHAM
PARCEL 6
Net- 0.19 Ac.
Ex. Rd.- 0.54 Ac.

W.R. & LILLIE F. VANLANDINGHAM (Life)
HICKSON & BETTY THATCHER (Land Contract)
PARCEL 7
Net- 0.05 Ac.
Ex. Rd.- 0.13 Ac.

W.R. & LILLIE F. VANLANDINGHAM
PARCEL 8
Net- 0.11 Ac.
Ex. Rd.- 0.28 Ac.

PARCEL 8-X
0.01 Ac.

FRANK SPENCER
PARCEL 5 - Net- 0.35 Ac. - Ex. Rd.- 0.82 Ac.

EDNA RUTH JENKINS
PARCEL 9
Net- 3.99 Ac.
Ex. Rd.- 1.50 Ac.

SEC. 8.95

COMPLETION DATE - 3-22-61

REVISED	REVISION DESCRIPTION	BY

SHEET 2 of 8

TIFFIN TWP. - V.M.S. 14428, 15108, & 15359
W.R. & LILLIE F. VANLANDINGHAM
PARCEL 8
Net - 0.11 Ac.
Ex. Rd. - 0.28 Ac.

EDNA RUTH JENKINS
PARCEL 9
Net - 3.99 Ac.
Ex. Rd. - 1.50 Ac.

OWNEY B. & ANNA B. HAYSLIP
PARCEL 10
Net - 5.32 Ac.
Ex. Rd.- 0.52 Ac.

R/W PLAN - 503+00 To 533+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

ADAMS COUNTY ADA-247-(8.95)(14.20) R/W PLAN

TIFFIN TWP.
V.M.S. 15108, 15359, 14573, 14757, 14569 & 1786

W.Q. & LILLIE E. VANLANDINGHAM — PARCEL 8

OWNEY B. & ANNA B. HAYSLIP — PARCEL 10
Net - 5.32 Ac.
Ex. Ro. - 0.52 Ac.

ESTA JOHNSON — PARCEL 11
No R/W Req'd.

ERNEST & ETHEL WHITE — PARCEL 12
No R/W Req'd.

WINNIFRED HOLMES — PARCEL 13
Net - 2.13 Ac.
Ex. Ro - 1.89 Ac.

V.M.S. 15108 — V.M.S. 14573 — V.M.S. 14569 — V.M.S. 15359 — V.M.S. 14757 — V.M.S. 1786

Ex. R/W To Be Vacated — Const. Limits — Ex. R/W — Prop. R/W — Ex. R/W To Be Vacated — Prop. Ch. R/W — Ex. Ch. R/W

534+49.52 — 534+63.52 — 538+00 — 539+00 — 543+83.52 — 544+72.48 — 545+65.70 — 546+28.58 — 547+97.19 — 549+00

OWNEY B. & ANNA B. HAYSLIP
PARCEL 10 — Net - 5.32 Ac. Ex. Ro. - 0.52 Ac.
PARCEL 10-X — 0.01 Ac.

WINNIFRED HOLMES — PARCEL 13
Net - 2.13 Ac.
Ex. Ro - 1.89 Ac.

SEC. 8.95

COMPLETION DATE - 3-22-61

REVISED	REVISION DESCRIPTION	BY	SHEET
			3
			8

TIFFIN TWP.
V.M.S. 14569, 1786, 3939 & 3950

WINNIFRED HOLMES — PARCEL 13
Net - 2.13 Ac.
Ex. Ro - 1.89 Ac.

TRUSTEES LAUREL GRANGE — PARCEL 14
No R/W Req'd.

RAY & TILLIE HOWELL — PARCEL 16 — Net - 0.82 Ac. Ex. Ro - 1.88 Ac.
PARCEL 16-X — 0.08 Ac.

V.M.S. 14569 — V.M.S. 1786 — V.M.S. 3939 — V.M.S. 3950

549+00 — 549+07.74 — 550+08.61 — 550+69.01 — 551+20.91 — 551+51.67 — 551+90 — 553+15.05 — 555+14.85 — 555+50 — 555+31.38 — 557+14.62 — 557+61.09 — 557+57.80 — 558+34.04 — 558+88.15 — 558+87.39 — 559+87.18 — 560+00 — 561+60 — 562+00 — 562+95.97 — 562+98.35 — 563+60 — 564+71.70

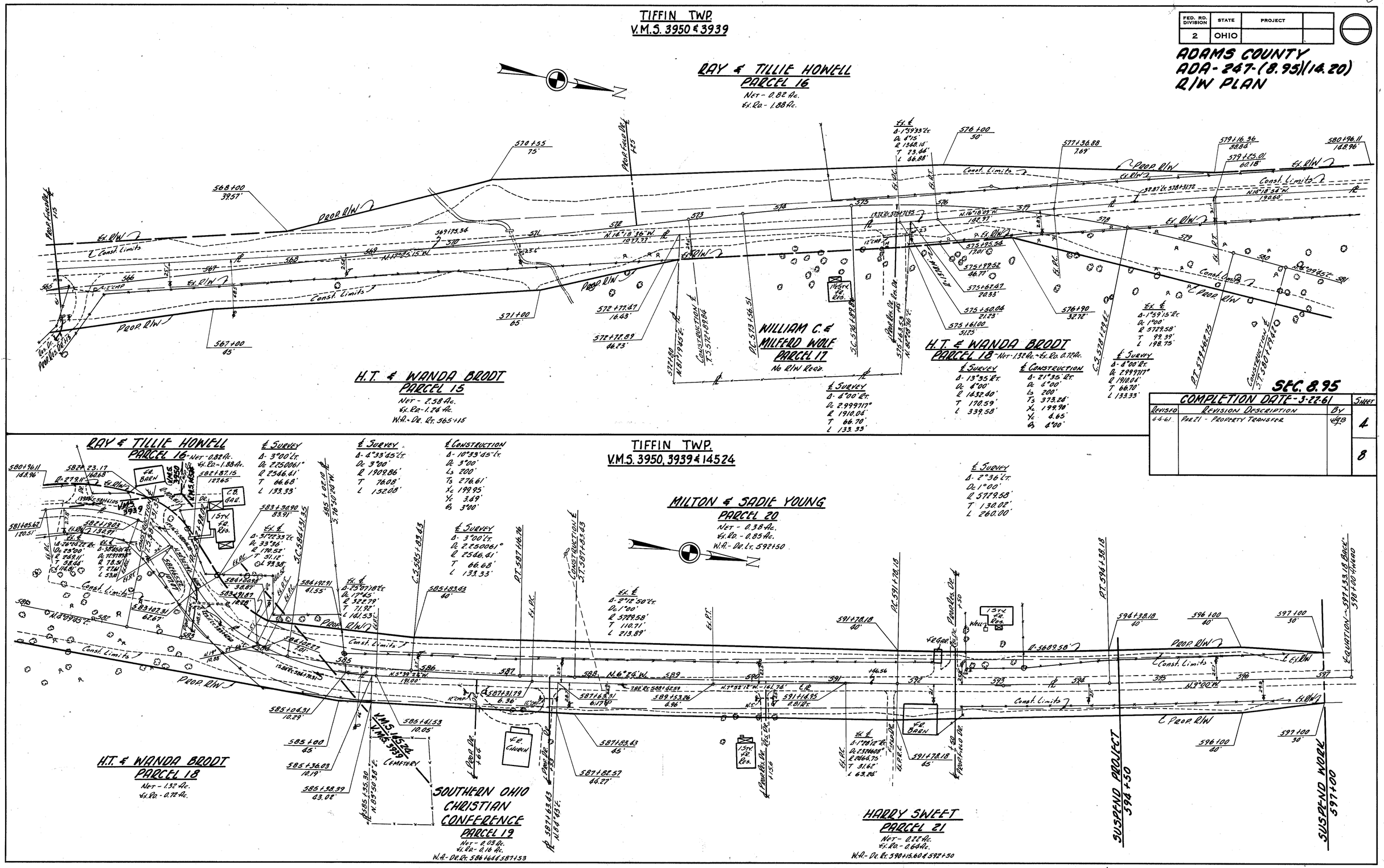
WINNIFRED HOLMES — PARCEL 13 — Net - 2.13 Ac. Ex. Ro - 1.89 Ac.
PARCEL 13-X — 0.06 Ac.

H.T. & WANDA BRODT
PARCEL 15 — Net - 2.58 Ac. Ex. Ro - 1.26 Ac.
PARCEL 15-X — 0.002 Ac.
PARCEL 15-Y — 0.02 Ac.

R/W PLAN - 533+00 To 565+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

ADAMS COUNTY
ADA-247-(8.95)(14.20)
R/W PLAN



COMPLETION DATE - 3-22-61			SHEET
REVISED	REVISION DESCRIPTION	BY	
4-4-61	PAR. 21 - PROPERTY TRANSFER		4
			8

R/W PLAN - 565+00 To 597+33.18

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

ADAMS COUNTY
ADA-247-(8.95)(14.20)
R/W PLAN

WAYNE TWP. & OLIVER TWP.
V.M.S. 143

℄ SURVEY
Δ- 3°00' Lt.
D_c 2°15'
R 2546.61'
T 66.68'

℄ CONSTRUCTION
Δ- 10°03'30" Lt.
D_c 3°00'
L_s 200'
T_s 268.15'
X_s 199.95'
Y_c 3.69'
θ_s 3°00'

℄ SURVEY
Δ- 6°03'30" Lt.
D_c 3°00'
R 1909.86'
T 67.67'
L 135.28'

℄ SURVEY
Δ- 3°00' Lt.
D_c 2°15'
R 2546.61'
T 66.68'

GEORGE & EDNA FITZPATRICK
PARCEL 22
NET - 3.98 Ac.
Ex. R/W - 1.55 Ac.

Ex. ℄
Δ- 7°54' Lt.
D_c 4°30'
R 1273.24'
T 87.92'
L 175.56'

Ex. ℄
Δ- 10°36' Lt.
D_c 4°30'
R 1273.24'
T 117.74'
L 236.81'

Ex. ℄
Δ- 3°56' Lt.
D_c 2°30'
R 2291.83'
T 78.70'
L 157.33'

Ex. ℄
Δ- 9°13' Lt.
D_c 5°30'
R 1041.74'
T 83.97'
L 167.58'

Ex. ℄
Δ- 1°48' Lt.
D_c 1°00'
R 5729.58'
T 90.01'
L 180.00'

℄ CONSTRUCTION
℄ 737+00.00
℄ 753+01.00

PC 751+67.67
SC 753+01.00
CS 755+36.28
PT 755+69.61
℄ CONSTRUCTION
737+00.00
757+18.82

WAYNE TWP
OLIVER TWP
Ex. ℄
Ex. R/W
Ex. P.C.
Ex. P.T.C.
Ex. P.C.C.
Prop. R/W
Const. Limits
Ex. 18" CMP
Ex. 24" CMP
Ex. 30" CMP
Ex. Spring
Ex. Fit. Hog Houses
Ex. Pond Field Dr.
Ex. Pond Field Dr. 150

℄ 767+86.15
Δ- 7°54' Lt.

768+74.07
30'

768+74.07
30'

769+96.26
45

752+75
75'

754+36.28
75'

753+46.63
68.79'

755+27.69
83.17'

755+37.88
85.79'

757+18.82
111.39'

757+75
63.30'

757+75
125.04'

RESUME WORK
749+50

RESUME PROJECT
750+00

Note: Ex. R/W To Be Vacated
S61°20 N.E.
S21°40 S.W.

N.6°17'30"W.

SEC. 14.20

GEORGE & EDNA FITZPATRICK
PARCEL 22
NET - 3.98 Ac.
Ex. R/W - 1.55 Ac.

COMPLETION DATE: 3-22-61			SHEET
REVISED	REVISION DESCRIPTION	BY	5
			8

WAYNE TWP. & OLIVER TWP. - V.M.S. 143

GEORGE & EDNA FITZPATRICK
PARCEL 22
NET - 3.98 Ac.
Ex. R/W - 1.55 Ac.

Ex. ℄
Δ- 29°54' Rt.
D_c 25°00'
R 229.18'
T 61.19'
L 119.60'

Ex. ℄
Δ- 30°10' Rt.
D_c 33.13°
R 172.96'
T 46.61'
L 91.06'

Ex. ℄
Δ- 33°31' Lt.
D_c 27°54'
R 205.36'
T 61.86'
L 120.13'

Ex. ℄
Δ- 37°12' Lt.
D_c 40.69°
R 140.82'
T 47.39'
L 91.42'

Ex. ℄
Δ- 22°12' Rt.
D_c 14°00'
R 409.26'
T 80.29'
L 158.57'

Ex. ℄
Δ- 15°37' Lt.
D_c 7°30'
R 763.96'
T 106.76'
L 208.22'

Ex. ℄
Δ- 7°09' Lt.
D_c 2°30'
R 2291.83'
T 143.19'
L 286.00'

IRVIN & MARY KNAUFF
PARCEL 23
NET - 4.98 Ac.
Ex. R/W - 3.08 Ac.

PARCEL 23-X
0.08 Ac.

JOHN & STELLA WEBB
PARCEL 24
NET - 2.95 Ac.
Ex. R/W - 0.56 Ac.

PARCEL 24-X
0.01 Ac.

WAYNE TWP
OLIVER TWP
CHERRY FORK
Ex. 15" CMP
Ex. 38" CMP
Ex. 72" CMP
Ex. 132" CMP
Ex. Pond Field Dr.
Ex. Pond Field Dr. +15
Ex. Pond Field Dr. +16.4
Ex. Pond Field Dr. +20
Ex. Pond Field Dr. +30
Ex. Pond Field Dr. +50
Prop. Channel R/W
Prop. R/W
Const. Limits
Ex. R/W To Be Vacated
Ex. 1 Fit. House

N.6°17'30"W.
N.6°22'28"W.

766+00
45'

766+81.93
50.46'

767+65.55
S.37°23'41"E.

770+50
75'

770+89.92
165.91'

771+27.83
167.13'

773+28.06
152.87'

775+75
150'

775+36.18
112.38'

776+03.87
135.72'

769+50.43
111.54'

769+34.55
127.36'

WNA - Dr. Lt. 766+00

R/W PLAN - 747+00 To 776+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

ADAMS COUNTY
ADA-247-(8.95)(14.20)
R/W PLAN

SEC. 14.20

COMPLETION DATE: 3-22-61			SHEET
REVISED	REVISION DESCRIPTION	BY	6
			8

WAYNE TWP. & OLIVER TWP.
V.M.S. 143

IRVIN & MARY KNAUFF
PARCEL 23 — Net - 4.88 Ac. Ex. Rd. - 3.08 Ac.
PARCEL 23-X — 0.08 Ac.

JOHN & STELLA NEBB
PARCEL 26 — Net - 2.19 Ac. Ex. Rd. - 0.56 Ac.
PARCEL 26-X — 0.11 Ac.

IRVIN & MARY KNAUFF
PARCEL 23 — Net - 4.88 Ac. Ex. Rd. - 3.02 Ac.
PARCEL 23-Y — 0.11 Ac.

IRVIN & MARY KNAUFF
PARCEL 23
Net - 4.88 Ac.
Ex. Rd. - 3.02 Ac.

WAYNE TWP.
V.M.S. 143 & 1024

IRVIN & MARY KNAUFF
PARCEL 23
Net - 4.88 Ac.
Ex. Rd. - 3.02 Ac.

JAMES W. COLE
PARCEL 25
Net - 5.53 Ac.
Ex. Rd. - 4.72 Ac.

JAMES W. COLE
PARCEL 25 — Net - 5.53 Ac. Ex. Rd. - 4.72 Ac.
PARCEL 25-X — 0.11 Ac.

R/W PLAN - 776+00 To 808+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

ADAMS COUNTY
ADA-247-(8.95)(14.20)
R/W PLAN

WAYNE TWP.
V.M.S. 1024

JAMES W. COLE
PARCEL 25
Net - 5.53 Ac.
Ex. Ro - 4.72 Ac.

Ex. ℄
Δ - 1°27'36" Lt.
Dc 1°30'
R 3819.72'
T 48.65'
L 97.30'

Ex. ℄
Δ - 1°08'46" Lt.
Dc 0°24'
R 14323.70'
T 134.86'
L 269.72'

Ex. ℄
Δ - 7°27'18" Lt.
Dc 4°40'
R 1227.77'
T 79.99'
L 161.83'

808 Drive | 809 | 810 | 811 | 812 | 813 | 814 | 815 | 816 | 817 | 818 | 819 | 820 | 821 | 822 | 823 | 824

818+00 / 65'

823+50 / 50

Prop. R/W — Const. Limits — Ex. R/W

Ex. P.T. — Ex. P.C. — Ex. P.R.C. — Ex. P.C.C. — Ex. P.T.

N. 6°22'11" W. 426.10'

N. 6°24'11" W. 752.16'

N. 8°29'13" W. 73.00'

N. 6°47' W.

12" CMP

Ex. R/W 812+39.55 62.77'

819+91.91 54.57'

822+62.12 49.05'

Ex. R/W 823+50 50'

Prop. R/W 818+00 65'

Prop. Fence Dr. 130'

Prop. Fence Dr. 125'

Prop. Fence Dr. 135'

Ex. R/W 808+13.21 60.56'

℄ 3849.72'

℄ 14,353.70'

℄ 1227.77'

Ex. R/W 812+39.55 to 813+39.46

Ex. R/W 822+26.43 to 823+50

SEC. 14.20

COMPLETION DATE: 3-27-61

REVISED	REVISION DESCRIPTION	BY
4-18-61	Ex. R/W Vacated	JRB

SHEET 7

JAMES W. COLE
PARCEL 25
Net - 5.53 Ac.
Ex. Ro - 4.72 Ac.

WAYNE TWP.
V.M.S. 1024

J. W. HARDYMON
PARCEL 26
Net - 0.59 Ac.
Ex. Ro - 0.02 Ac.

PARCEL 26-X
0.12 Ac.

JAMES W. COLE
PARCEL 25-Y
0.02 Ac.

JAMES W. COLE
PARCEL 25-Z
0.29 Ac.

JOSEPH L. STERN
PARCEL 27
Net - 5.03 Ac.
Ex. Ro - 0.89 Ac.

Ex. ℄
Δ - 7°27'18" Lt.
Dc 4°40'
R 1227.77'
T 79.99'
L 161.83'

Ex. ℄
Δ - 3°49'44" Rt.
Dc 2.292857°
R 2543.25'
T 85.01'
L 169.96'

Ex. ℄
Δ - 22°40'22" Rt.
Dc 12°40'
R 452.36'
T 90.69'
L 179.00'

Ex. ℄
Δ - 2°37'41" Lt.
Dc 2°00'
R 2866.79'
T 65.71'
L 131.40'

Ex. ℄
Δ - 6°27'17" Lt.
Dc 6°00'
R 954.93'
T 53.00'
L 105.88'

825+60 / 60.17' — 825+90 / 105' — 826+10 / 63.91' — 826+50 / 75'

828+12.19 / 75.00' — 829+11.60 / 74.55' — 829+33.67 / 41.61' — 829+96.85 / 26.52' — 830+81.16 / 16.54' — 831+34.73 / 16.54'

832+30 / 78.75' — 832+98.18 / 62.58' — 832+61.00 / 37.82' — 832+54.90 / 82.26' — 832+70 / 200'

833+07.69 / 140' — 833+00 / 140' — 833+25 / 80' — 834+33.67 / 184.15' — 834+54.23 / 190.23' — 834+75 / 156.31' — 834+75 / 50'

834+70 / 78.26' — 834+53.99 / 136.09'

830+85 / 80.21' — 830+60 / 205' — 830+90 / 205' — 831+33.67 / 263.42' — 831+56.23 / 277.34' — 831+75 / 291.26'

839+00 / 75'

840+00 / 85'

Prop. R/W — Const. Limits — Ex. R/W — Ex. C.L. — Ex. P.T. — Ex. P.C. — Ex. P.R.C. — Ex. P.C.C.

Prop. Channel R/W — Prop. Channel C.L. — Ex. Channel C.L.

Prop. Fence Dr. 125' — Prop. Fence Dr. 135' — Prop. Fence Dr. 130'

Prop. Fence Dr. 139' — Prop. Fence Dr. 140' — Prop. Fence Dr. 141'

Ex. R/W 826+50 to 827+35.84 — Ex. R/W 829+96.85 to 830+81.16 — Ex. R/W 831+34.73 to 832+30

Ex. R/W 832+98.18 to 833+07.69 — Ex. R/W 833+25 to 834+33.67

Ex. R/W 834+53.99 to 834+70

N. 18°56'31" W. 160.75'

15" CMP — 18" CMP — 24" CMP — 30" CMP — 42" CMP

N. 7°24'29" W. 382.20'

N. 7°11'27" W. 618.60'

Note: Ex. R/W To Be Vacated

Ex. R/W 831+75 to 832+70

Ex. R/W 834+70 to 835+00

Parcel 26-X — Parcel 25-Z

Run

℄ 3849.72'

℄ 1227.77'

℄ 2866.79'

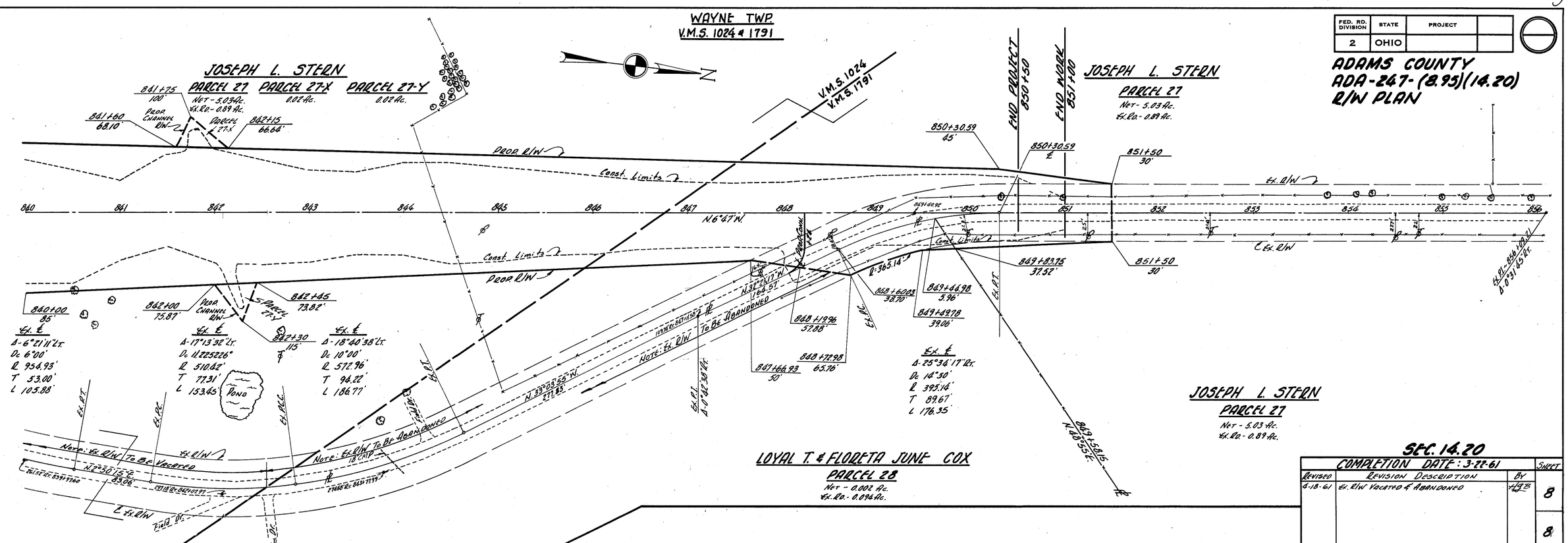
℄ 14,353.70'

℄ 954.93'

R/W PLAN - 808+00 To 840+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

ADAMS COUNTY
ADA-247-(8.95)(14.20)
R/W PLAN



SEC. 14.20

COMPLETION DATE: 3-27-61

REVISED	REVISION DESCRIPTION	BY	SHEET
4-18-61	Ex. R/W Vacated & Abandoned	HJB	8
			8

SUMMARY OF ADDITIONAL RIGHT OF WAY TO BE ACQUIRED

Parcel No.	Owner	Deed Record Vol.	Deed Record Pg.	Deed Area	To Be Acq. Land	To Be Acq. Bldgs	Residue Lt	Residue Rt	Sheet No.	Remarks
1A	Homer & Marie Harris	151	629	130.5	0.20 A		130.3		1	
2A	Starling Gifford	168	637	52.7	0.25 A			52.45	1	
3	Scott J. & Nelle Rigdon	123	161	186.5	1.05 A.		185.45		1,2	
3X					0.05 A				1	Channel Change
4	Scott J. Rigdon Jr. & Margaret Rigdon	149	344	110	0.59 A			109.41	1	W.A Dr. Rt 488+99
5	Frank Spencer (Rem.) Etta & Ira Jenkins (Life) W.R. & Lillie E.	156 157	685 438	47	0.35 A			46.65	1,2	
6	Vanlandingham W.R. & Lillie E.	173	160	70	0.19 A		69.81		2	See Parcel 8
7	Vanlandingham (Rec.)	173 2	160 15	1.65	0.05 A		91.60		2	Hiceson & Betty Thatcher Clause Contd.
8	~Same As 6~	173	160	70	0.11 A				2,3	See Parcel 6
8X					0.01 A				2	Channel Change
9	Edna Ruth Jenkins	156	485	2.06	3.99 A		202.0		1,2	
10	Olney B. & Anna B. Hayslip	118	629	111.0	5.32 A	Yes	105.68		2,3	2 Buildings
10X					0.01 A				3	Channel Change
11	Esta Johnson	171	584	.50					3	No R/W Required
12	Ernest & Ethel White	170	601	.50					3	" " " "
13	Winnifred Holmes	150 147	121 638	113	2.13 A	Yes	110.87		3	2 Buildings
13X					0.04 A				3	Channel Change
14	Trustees Laurel Grange	127	454	.50					3	No R/W Required
15	H.T. & Wanda Brodt	143 164	341 571	2.90	2.58 A			286.1	3,4	See Parcel 1B
15X					0.002 A				3	Channel Change
15Y					0.02 A				3	" "
16	Ray & Tillie Howell	146 146	555 470	2.6	0.82 A		251.8		3,4	
16X		146	470		0.08 A				3	Channel Change
17	William C. & Mildred Walter	143	544	0.125					4	No R/W Required

Parcel No.	Owner	Deed Record Vol.	Deed Record Pg.	Deed Area	To Be Acq. Land	To Be Acq. Bldgs	Residue Lt	Residue Rt	Sheet No.	Remarks
1B	~Same as 15~	143 164	341 571	2.90	1.32 A			286.1	4	See Parcel 15
2B	Southern Ohio Christian Conference	45	210	0.69	0.03 A			0.66	4	
3B	Milton & Sadie Young	168	138	15.6	0.98 A	Yes		185.62	4	WA- Dr Lt 532+50
4B	Harry Sweet	176	636	9.65	0.22 A	Yes		40.40	4	WA- Dr Rt 550+18.00 & 552+50
5B	George & Edna Fitzpatrick	175 163 168	447 521 646	320	3.98 A			316.02	5	WA Dr Lt 737+75 WA Dr Lt 766+00
7B	Irvin & Mary Knauff	174	107	200	4.88 A			195.12	5	
8B					0.08 A				5	Channel Change
8BX					0.11 A				5	" "
9B	John & Stella Webb	173 161 184 164	499 310 344 326	342.5	2.95 A			339.55	5,6	
9BX					0.01 A					Channel Change
10B	James W. Cole	120	112	210	5.53 A			204.47	6,7	
11B					0.11 A				6	Channel Change
11BX					0.02 A				7	" "
11BY					0.29 A				7	" "
12B	J.W. Hardyman	149	560	13.6	0.59 A		195.41		7	
12BX					0.12 A				7	Channel Change
13B	Joseph L. Stern	169	303	96.5	5.03 A			91.47	7,8	
13BX					0.02 A				8	Channel Change
13BY					0.08 A				8	" "
14B	Loyal T. & Floreta June Cox	175	586	2.30	0.002 A			2.298	8	

R/W PLAN - 840+00 To 856+09.21

TE-54-A
100-5-59

GENERAL INFORMATION

INTRODUCTION

The project consists of two sections of realignment, widening and grade changes of SR 247, the first section, designated ADA-247-(8.95) , begins approximately 1 mile north of West Union and extends northward for approximately 2.3 miles, and terminates approximately 0.9 mile north of County Road C-10; the second section, designated ADA-247-14.20, begins approximately 0.5 mile south of Cherry Fork, extends northward 2.1 miles, and terminates approximately 0.2 mile south of SR 137.

ADA-247-(8.95)

The proposed grade indicates cuts to be as great as 40 feet deep, at ditchline, and fill embankment to be as high as 20 feet, at centerline.

ADA-247-14.20

The proposed grade indicates cuts to range from 0 to 25 feet deep, and fill embankment between 0 and 30 feet in height.

GEOLOGY OF THE PROJECT

The projects are located in an unglaciated, highly dissected area, where thin residual soil overlies bedrock composed of limestone and shale, of lower Silurian age.

EXPLORATION

Exploratory borings were made by means of truck mounted mechanical earth auger, hand auger (in areas of difficult access), and rotary type drill rig, between July 27 and September 1, 1960.

INVESTIGATIONAL DISCLOSURES

Borings disclose that the material immediately below proposed grade on both sections consists predominantly of silt clay and clay, in the A-6 and A-7-6 classifications, as well as shale and limestone bedrock. Following are general notes regarding [illegible] of the borings in the major cut areas:

ADA-247-(8.95)

Stations 526+00 to 532+50 - through-cut in shale bedrock between 0 and 45 feet in depth, at ditchline.

Stations 545+00 to 548+50 - through-cut ranging from 0 to 10 feet deep, in silt clay (A-6b classification).

Stations 551+65 to 554+50 - through-cut 0 to 8 feet deep, in silt clay and clay, in the A-6b and A-7-6 classifications.

ADA-247-14.20

Stations 719+00 to 751+00 - left backslope cut 0 to 7 feet deep, along ditchline, quite likely entirely in silt clay and clay.

Stations 756+00 to 766+50 - through-cut entirely in clay as deep as 12 feet, at ditchline.

Stations 779+00 to 790+00 - through-cut as deep as 25 feet, of which the lower portion is in bedrock, shale and limestone.

Stations 804+00 to 814+00 - through-cut, 0 to 21 feet deep, in limestone and shale bedrock.

Stations 835+00 to 841+50 - through-cut ranging from 0 to 24 feet in depth, at ditchline, grade and lower portion of cut in shale.

Stations 843+50 to 850+00 - through-cut not greater than 14 feet, at ditchline, grade and lower portion of cut in shale.

The embankment foundation materials consist predominantly of fine grained soils, in the A-6, and A-7-6 classifications, all having moisture contents within the middle portion of the plastic range.

LEGEND FOR PROJECT-AVERAGE RESULTS OF TESTS- 201 SAMPLES TESTED

DESCRIPTION	H. R. B. CLASS	OHIO CLASS	% AGG.	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
Stone fragments with sand, silt, and clay	A-2-6(2)	A-2-6	63	2	2	14	19	38	22	17	2
Sandy silt	A-4 (6)	A-4a	9	6	19	40	26	26	9	25	1
Silt	A-4(0)	A-4b	0	5	6	54	35	32	6	22	6
Silt and clay	A-6 (9)	A-6a	2	6	6	30	46	34	13	20	28
Silty clay	A-6 (11)	A-6b	7	7	7	35	44	37	18	18	22
Elastic clay	A-7-5(20)	A-7-5	0	1	5	24	70	72	39	26	18
Clay	A-7-6(18)	A-7-6	0	3	4	34	59	52	28	23	86
Weathered shale				VISUAL CLASSIFICATION							38
Shale				VISUAL CLASSIFICATION							
Limestone				VISUAL CLASSIFICATION							
Unclassified material											

Sod and/or Topsoil X'=Approximate depth.

Berm material

Auger boring - plan view.

Drive sample-core boring - plan view.

Auger boring plotted to vertical scale only.

Drive sample-core boring. plotted to vertical scale only.

Number of blows for "Standard Penetration" test.
X=number of blows for the first 6 inches.
Y=number of blows for the second 6 inches.

● Water content nearly equal to or greater than liquid limit.

W Free water

NOTE: Figures beside borings indicate water content in percent. e.g. 15

Samples Tested
Lab. Nos.
68746-69050 incl.,
69530-69624 incl.,
72051
72060-72061 incl.,
73042
71709-71710 incl.,
71739
71745-71750 incl.

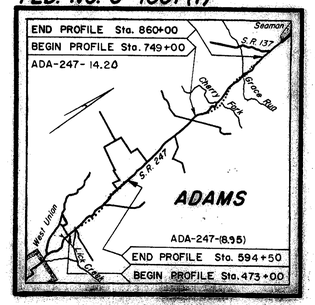
SOIL PROFILE
ADAMS COUNTY
ADA-247-(8.95) (14.20)

1/13

OHIO STATE HIGHWAY
TESTING LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO

NOTE: INFORMATION SHOWN BY THIS SUBGRADE PROFILE WAS OBTAINED SOLELY FOR USE IN ESTABLISHING DESIGN CONTROLS FOR THE PROJECT. THE STATE OF OHIO DOES NOT GUARANTEE THE ACCURACY OF THIS DATA AND IT IS NOT TO BE CONSTRUED AS A PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT.

FED. NO. S-1357(1)



LOCATION MAP

Recon — N.P.L. — 7-22-60
Drilling — Auger — A.U.P., L.M.D., H.F.N. — 7-27-60 to 8-5-60
Core — P.W., A.T.W., R.L.S. — 8-17-60 to 9-1-60
Drafting — B.L.C. — 9- -60

SOIL PROFILE
ADAMS COUNTY
ADA-247-(8.95) (14.20)
OHIO STATE HIGHWAY
TESTING LABORATORY
O S U CAMPUS COLUMBUS, OHIO

2/13

SUMMARY OF SOIL TEST DATA

Note: NP shown in Liquid Limit and Plasticity Index columns indicates that the material is non-plastic.
** Denotes sample taken at or near grade.*

Station & Offset		Depth From	To	% Agg	% C S	% F S	% Silt	% Clay	L L	P I	% W C	SHTL Class
						ADA-247-8.85						
473+00	12'Rt	0.3	4.0	0	1	2	29	68	67	42	30	A-7-6*
		4.0	9.0	0	0	1	27	72	60	32	24	A-7-6
		9.0	10.0	Gray and Maroon Extremely Weathered Shale							20	Visual
477+00	12'Rt	0.3	5.0	0	1	1	34	64	76	52	34	A-7-6*
		5.0	9.0	0	2	1	27	70	63	39	22	A-7-6
		9.0	10.0	Green and Maroon Extremely Weathered Shale							17	Visual
480+00	12'Rt	0.3	1.0	0	5	5	30	60	54	32	16	A-7-6*
		1.0	3.0	Grayish-Brown Extremely Weathered Siliceous Shale							13	Visual*
		3.0	8.0	Gray Weathered Shale							11	Visual
483+00	12'Rt	0.3	2.5	0	1	1	43	55	63	39	31	A-7-6*
		2.5	7.0	(0	5	5	49	41	31	16)	18	A-6b
		7.0	8.0	(0	5	5	49	41	31	16)	14	A-6b
487+00	12'Rt	0.3	2.0	0	10	8	51	31	28	6	20	A-4b *
		2.0	5.0	0	1	2	32	65	65	38	29	A-7-6*
		5.0	7.0	42	15	5	18	20	40	21	17	A-6b
		7.0	10.0	(0	2	8	23	67	67	34)	22	A-7-5
490+00	12'Rt	0.3	3.0	0	5	5	49	41	31	16	14	A-6b*
		3.0	6.0	0	2	3	43	52	38	20	17	A-6b
		6.0	8.5	0	3	3	45	49	44	27	21	A-7-6
		8.5	10.0	34	22	7	21	16	37	17	21	A-6b
494+00	14'Rt	0.2	5.0	0	5	4	49	42	36	15	23	A-6a *
		5.0	7.5	(0	2	8	23	67	67	34)	30	A-7-5
495+50	12'Lt	0.3	5.0	0	10	11	48	31	33	14	22	A-6a
		5.0	7.0	(0	2	8	23	67	67	34)	24	A-7-5
498+00	12'Lt	0.3	2.0	0	3	3	64	30	NP	NP	20	A-4b*
		2.0	4.0	35	11	4	30	20	26	12	16	A-6a*
		4.0	7.5	(0	2	8	23	67	67	34)	22	A-7-5
		7.5	8.0	(0	2	8	23	67	67	34)	22	A-7-5
		8.0	9.5	(0	2	8	23	67	67	34)	26	A-7-5
500+00	12'Lt	0.3	3.0	20	8	5	26	41	48	29	21	A-7-6*
		3.0	7.0	(0	2	8	23	67	67	34)	21	A-7-5
		7.0	9.0	Light Green Extremely Weathered Shale							17	Visual
		9.0	10.0	Maroon Extremely Weathered Shale							17	Visual
504+00	12'Rt	0.4	2.0	0	3	3	43	51	43	24	23	A-7-6*
		2.0	6.0	(0	3	3	43	51	43	24)	24	A-7-6*
		6.0	10.0	Light Green Weathered Shale							16	Visual
508+00	12'Lt	0.4	4.0	0	1	0	30	69	56	35	28	A-7-6 *
		4.0	9.0	Light Green Weathered Shale							16	Visual
		9.0	10.0	Maroon Weathered Shale							16	Visual
512+00	12'Lt	0.3	2.5	0	0	1	41	58	50	28	26	A-7-6*
		2.5	5.0	0	13	5	36	46	44	22	20	A-7-6*
		5.0	7.0	(0	13	5	36	46	44	22)	20	A-7-6
		7.0	8.0	Reddish-Brown Extremely Weathered Shale							18	Visual
		8.0	10.0	Green Weathered Shale							15	Visual
515+35	30'Rt	0.3	3.0	0	2	3	44	51	42	22	31	A-7-6*
		3.0	6.0	0	2	1	29	68	56	28	22	A-7-6
		6.0	7.0	0	2	3	44	51	43	24	29	A-7-6
		7.0	9.0	Light Green Extremely Weathered Shale							13	Visual
517+50	CL	0.3	3.0	0	5	3	36	56	44	22	26	A-7-6*
		3.0	7.0	0	2	2	38	58	52	27	20	A-7-6
		7.0	10.0	Brownish-Gray Extremely Weathered Shale							15	Visual
521+00	CL	0.4	3.0	0	9	5	39	47	44	24	23	A-7-6
		3.0	6.0	0	2	2	39	57	50	25	20	A-7-6
		6.0	8.0	(0	2	2	39	57	50	25)	17	A-7-6
		8.0	10.0	Grayish-Brown Weathered Shale							12	Visual
		10.0	11.5	Gray Weathered Shale							11	Visual

Station & Offset		Depth From	To	% Agg	% C S	% F S	% Silt	% Clay	L L	P I	% W C	SHTL Class
524+50	CL	0.2	2.0	20	5	4	37	34	33	13	14	A-6a
		2.0	6.0	0	3	3	35	59	58	34	18	A-7-6
		6.0	7.0	Brown Weathered Shale							15	Visual
527+00	58'Lt	0.0	3.0	0	2	2	34	62	58	29	22	A-7-6
		3.0	6.0	Dark Brown Weathered Shale							14	Visual
		6.0	9.0	Greenish-Brown Weathered Shale							14	Visual
528+70	CL	0.0	2.0	(0	3	4	41	52	43	22)	14	A-7-6
		2.0	5.0	Greenish-Brown Weathered Shale							9	Visual
532+75	CL	0.0	2.0	0	3	4	41	52	43	22	17	A-7-6
		2.0	4.0	Dark Brown Extremely Weathered Shale							15	Visual
		4.0	7.0	Light Brown Extremely Weathered Shale							18	Visual
		7.0	10.0	Light Brown Extremely Weathered Shale							12	Visual
535+00	CL	0.0	2.0	Grayish-Brown Weathered Shale							13	Visual*
		2.0	5.0	Light Brown Weathered Shale							12	Visual
		5.0	6.5	Grayish-Brown Extremely Weathered Shale							11	Visual
538+50	CL	0.0	3.0	21	4	5	32	38	40	19	15	A-6b*
		3.0	6.0	18	5	8	32	33	38	17	22	A-6b*
		6.0	8.0	0	2	2	40	56	55	30	19	A-7-6
		8.0	12.0	Grayish-Brown Extremely Weathered Shale							15	Visual
541+00	CL	0.0	3.0	0	6	8	37	49	39	12	15	A-6a
		3.0	7.0	0	6	7	37	50	34	16	16	A-6b
		7.0	9.0	0	4	4	45	47	37	20	17	A-6b
		9.0	10.0	0	5	7	41	47	37	19	16	A-6b
543+50	CL	0.4	3.0	0	4	4	31	61	50	25	25	A-7-6
		3.0	7.0	(0	4	4	31	61	50	25)	18	A-7-6
		7.0	8.0	(63	2	2	14	12	36	22)	14	A-2-6
545+90	CL	0.2	4.0	0	2	5	31	62	53	36	24	A-7-6
		4.0	10.0	0	4	7	33	56	36	17	17	A-6b*
549+35	CL	0.2	3.0	0	2	8	48	42	32	14	18	A-6a
550+50	CL	0.3	2.0	0	6	20	35	39	34	16	21	A-6b
		2.0	3.0	0	3	5	35	47	26	19	19	A-7-6
		3.0	5.0	0	4	9	36	49	37	17	18	A-6b
553+00	CL	0.3	2.0	0	2	5	37	56	61	42	25	A-7-6
		2.0	8.0	0	3	7	37	53	38	17	17	A-6b*
		8.0	11.0	0	2	3	29	46	50	27	23	A-7-6*
555+00	CL	0.2	2.0	0	1	2	25	72	60	31	21	A-7-6
		2.0	3.5	0	0	1	33	64	50	25	22	A-7-6
557+50	56'Lt	0.2	2.0	0	6	9	34	51	41	20	18	A-7-6
		2.0	4.0	0	5	7	28	60	55	27	27	A-7-6*
557+50	CL	0.2	2.0	0	2	8	23	67	69	34	21	A-7-5*
561+50	42'Lt	0.5	4.0	0	6	5	27	62	60	33	21	A-7-6
566+00	CL	0.2	3.0	0	3	6	31	40	46	22	27	A-7-6
		3.0	5.5	0	4	6	31	59	60	43	24	A-7-6
570+00	12'Lt	0.2	3.0	0	2	4	58	36	36	12	18	A-6a
574+00	15'Rt	0.2	5.5	0	3	6	41	50	46	23	22	A-7-6*
578+00	CL	0.2	4.0	0	1	4	27	68	57	24	28	A-7-5
581+00	CL	0.0	6.0	0	2	4	29	65	54	27	16	A-7-6*
		6.0	10.0	(0	2	4	29	65	54	27)	14	A-7-6
585+00	5'Lt	0.2	2.0	0	1	2	30	67	53	26	20	A-7-6*
		2.0	6.0	(0	1	2	30	67	53	26)	17	A-7-6*
		6.0	10.0	Greenish-Gray Weathered Shale							13	Visual

Station & Offset		Depth From	To	% Agg	% C S	% F S	% Silt	% Clay	L L	P I	% W C	SHTL Class
589+00	15'Rt	0.3	6.0	0	2	3	33	62	44	23	13	A-7-6*
		6.0	9.0	0	5	2	33	60	57	30	15	A-7-6
		9.0	10.0	(0	2	4	58	36	36	12)	15	A-6a
592+00	12'Rt	0.2	4.0	0	6	9	32	53	49	26	21	A-7-6*
		4.0	8.0	0	0	1	32	67	62	31	21	A-7-5*
		8.0	12.0	(0	0	2	34	64	63	37)	16	A-7-6
594+50	12'Rt	0.2	4.0	0	1	1	27	71	68	35	24	A-7-5*
		4.0	10.0	(0	0	1	27	72	68	35	24	A-7-6
						ADA-247-(10.18)(14.25)						
749+00	12'Lt	0.3	8.0	0	6	11	40	43	37	17	20	A-6b*
752+60	CL	0.0	4.0	0	5	8	39	48	51	29	19	A-7-6*
		4.0	7.0	0	6	12	27	55	44	23	21	A-7-6
756+00	6'Lt	0.0	4.0	0	3	6	39	52	41	17	26	A-7-6
		4.0	7.0	0	4	7	41	48	42	20	23	A-7-6
759+00	CL	0.0	3.0	0	2	4	55	39	30	9	23	A-4b
		3.0	5.8	0	1	3	32	64	62	39	34	A-7-6
762+00	CL	0.5	2.0	0	7	7	39	47	41	19	19	A-7-6*
		2.0	3.5	0	5	6	30	59	44	16	23	A-7-6*
766+00	CL	0.2	3.0	0	5	9	41	45	46	18	18	A-7-6*
767+50	CL	0.0	3.0	0	4	10	45	41	32	15	22	A-6a
		3.0	7.0	0	3	3	38	56	47	27	24	A-7-6
770+00	CL	0.0	3.7	63	2	2	14	19	38	22	20	A-2-6
774+00	CL	0.5	5.0	0	6	21	43	30	31	12	17	A-6a*
777+50	CL	0.0	2.0	0	0	2	34	64	63	37	19	A-7-6
		2.0	6.0	0	1	1	51	47	46	25	15	A-7-6*
		6.0	8.5	0	27	18	21	34	39	12	20	A-6a*
780+00	CL	0.2	5.0	0	1	6	37	56	51	30	22	A-7-6
		5.0	6.5	33	10	5	18	34	38	18	15	A-6b
785+00	CL	0.3	4.0	0	0	2	19	79	97	59	34	A-7-5
		4.0	6.0	0	1	1	15	83	67	33	29	A-7-5
792+00	CL	0.2	5.0	0	4	8	47	41	34	14	20	A-6a *
		5.0	8.0	0	1	3	25	71	66	27	32	A-7-6
794+60	60'Lt	0.5	4.0	0	7	6	38	49	46	27	22	A-7-6
		4.0	6.0	0	0	1	32	62	44	18	21	A-7-6
		6.0	7.0	0	1	3	36	60	58	31	38	A-7-6
		7.0	10.0	0	1	3	38	58	30	11	11	A-6a
796+00	CL	0.5	4.0	0	3	4	37	56	49	23	20	A-7-6*
		4.0	10.0	0	1	2	37	60	30	11	14	A-6a
		10.0	12.0	Gray Weathered Shale							9	Visual
799+00	CL	0.5	3.0	0	5	3	20	72	45	28	23	A-7-6
		3.0	4.5	Gray Weathered Shale						19	12	Visual
803+00	CL	0.0	3.5	0	2	2	27	69	41	21	18	A-7-6
		3.5	6.5	Grayish-Green Weathered Shale							10	Visual
806+00	10'Lt	1.0	3.5	0	4	2	24	70	45	20	18	A-7-6
807+00	CL	0.0	2.0	0	1	3	45	51	38	13	22	A-6a
		2.0	3.0	0	14	7	34	45	35	14	23	A-6a
		3.0	7.0	0	3	2	26	69	44	21	20	A-7-6
809+50	15'Lt	0.5	3.0	0	1	1	36	62	43	22	18	A-7-6
		3.0	11.0	Grayish-Green Weathered Shale							12	Visual
		11.0	16.0	Gray Weathered Shale							10	Visual*
812+50	CL	0.5	3.0	0	4	5	50	41	38	10	19	A-4b
		3.0	7.0	0	0	1	24	75	54	62	32	A-7-5
		7.0	9.0	0	0	1	27	72	54	64	33	A-7-5

Station & Offset		Depth From	To	% Agg	% C S	% F S	% Silt	% Clay	L L	P I	% W C	SHTL Class
815+00	CL	0.5	2.0	0	3	5	51	41	35	12	21	A-6a *
		2.0	3.5	0	1	2	38	59	60	29	33	A-7-5*
818+00	CL	0.5	3.0	0	7	6	39	48	36	18	19	A-6b
		3.0	5.0	0	2	2	27	69	30	12	—	A-6a
		5.0	7.0	0	14	11	17	58	53	30	41	A-7-6
821+50	CL	0.0	2.0	0	1	3	36	60	51	23	26	A-7-6
		2.0	7.0	0	11	7	26	56	54	28	26	A-7-6
		7.0	8.0	0	2	5	33	60	33	12	19	A-6a
		8.0	10.0	0	1	2	30	67	37	14	19	A-6a
825+00	12'Lt	0.0	4.0	0	2	3	53	42	36	11	26	A-6a
		4.0	6.0	0	3	1	33	63	39	16	20	A-6b
		6.0	10.0	Grayish-Green Weathered Shale							13	Visual
826+50	10'Rt	0.5	3.0	Greenish-Gray Weathered Shale							16	Visual*
		3.0	4.0	Gray Weathered Shale							10	Visual*
830+00	CL	1.0	4.5	0	3	8	32	57	43	24	18	A-7-6
831+50	CL	0.0	2.0	0	6	7	50	37	36	5	31	A-4b
		2.0	3.0	0	14	8	42	36	36	14	36	A-6a
834+00	CL	0.5	3.0	0	7	6	38	49	40	19	21	A-6b
		3.0	4.0	0	9	7	31	53	41	20	20	A-7-6
837+00	CL	0.5	3.0	0	6	3	37	54			20	A-7-5
		3.0	7.0	0	0	1	23	76	40	15	17	A-6a
		7.0	8.5	Gray Weathered Shale							14	Visual*
840+00	CL	0.5	3.0	0	1	2	33	64	57	31	21	A-7-6
		3.0	7.0	0	2	2	37	59	37	12	19	A-6a
		7.0	13.0	0	3	3	42	52	33	12	21	A-6a
		13.0	15.5	Greenish-Gray Weathered Shale							9	Visual
		15.5	17.0	Gray Weathered Shale							9	Visual
842+00	CL	0.5	2.0	0	18	14	36	32	34	16	23	A-6b
		2.0	4.5	0	12	5	29	54	35	15	13	A-6a
		4.5	5.5	0	11	6	30	53	34	13	23	A-6a
845+00	CL	0.5	5.5	0	2	6	25	67	50	24	21	A-7-6
		5.5	7.5	0	3	6	35	56	48	26	23	A-7-6
849+00	10'Rt	0.5	2.5	(0	0	1	24	75)	92	61	34	A-7-5*
		2.5	4.0	0	5	4	26	65	61	33	29	A-7-6*
853+00	12'Lt	0.3	3.0	0	4	8	53	35	28	8	17	A-4b*
		3.0	5.0	0	2	3	53	42	37	14	24	A-6a
		5.0	10.0	0	1	3	23	73	80	51	29	A-7-6
857+00	12'Lt	0.3	3.0	0	2	4	38	56	76	54	25	A-7-6*
		3.0	8.0	0	7	10	40	43	37	17	18	A-6b
860+00	12'Lt	0.3	3.0	0	2	6	37	55	64	42	26	A-7-6*
		3.0	5.0	0	5	9	34	52	51	31	27	A-7-6
				DRIVE SAMPLE SOIL TEST DATA								
528+50	CL	5.0	6.0	24	3	1	26	46	47	23	16	A-7-6
		10.0	11.0	17	2	1	33	47	46	20	11	A-7-6
759+00	CL	5.0	6.0	0	1	2	31	66	64	37	29	A-7-6
		10.0	10.7	0	6	7	36	51	46	19	28	A-7-6
782+50	9'Rt	5.0	5.6	17	7	8	27	41	42	21	18	A-7-6
812+50	5'Lt	5.0	6.0	0	5	5	43	47	32	11	23	A-6a
840+00	CL	5.0	6.0	0	2	4	34	60	33	13	21	A-6a
		10.0	11.0	0	1	2	36	41	30	14	14	A-6a
845+00	CL	5.0	6.0	9	6	19	40	26	29	9	25	A-4a

Note:
Classification characteristics in parentheses indicate test data for a sample determined by visual examination to have characteristics essentially the same as the sample obtained as representative of the given interval.

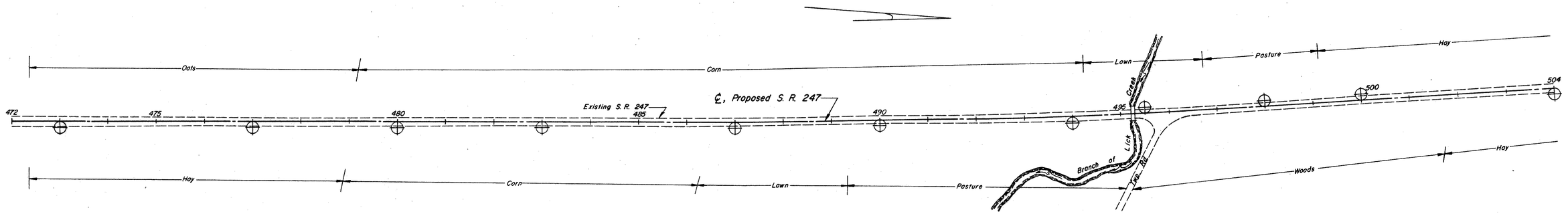
TE-54-S
800.4.60

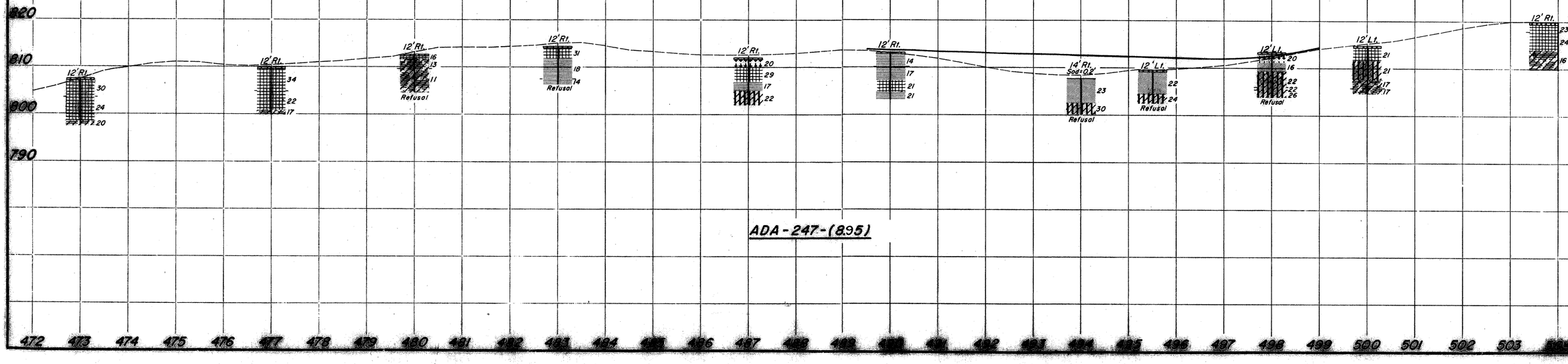
SOIL PROFILE

ADAMS COUNTY

ADA-247-(8.95) (14.20)

OHIO STATE HIGHWAY
TESTING LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO





ADA-247-(8.95)

TE-54.8
800.4-60

SOIL PROFILE

ADAMS COUNTY

ADA-247-(8.95) (14.20)

OHIO STATE HIGHWAY TESTING LABORATORY

O. S. U. CAMPUS, COLUMBUS, OHIO

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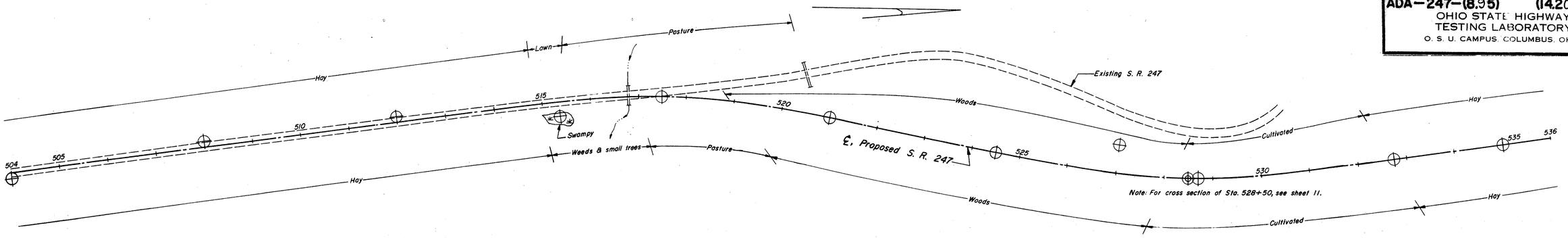
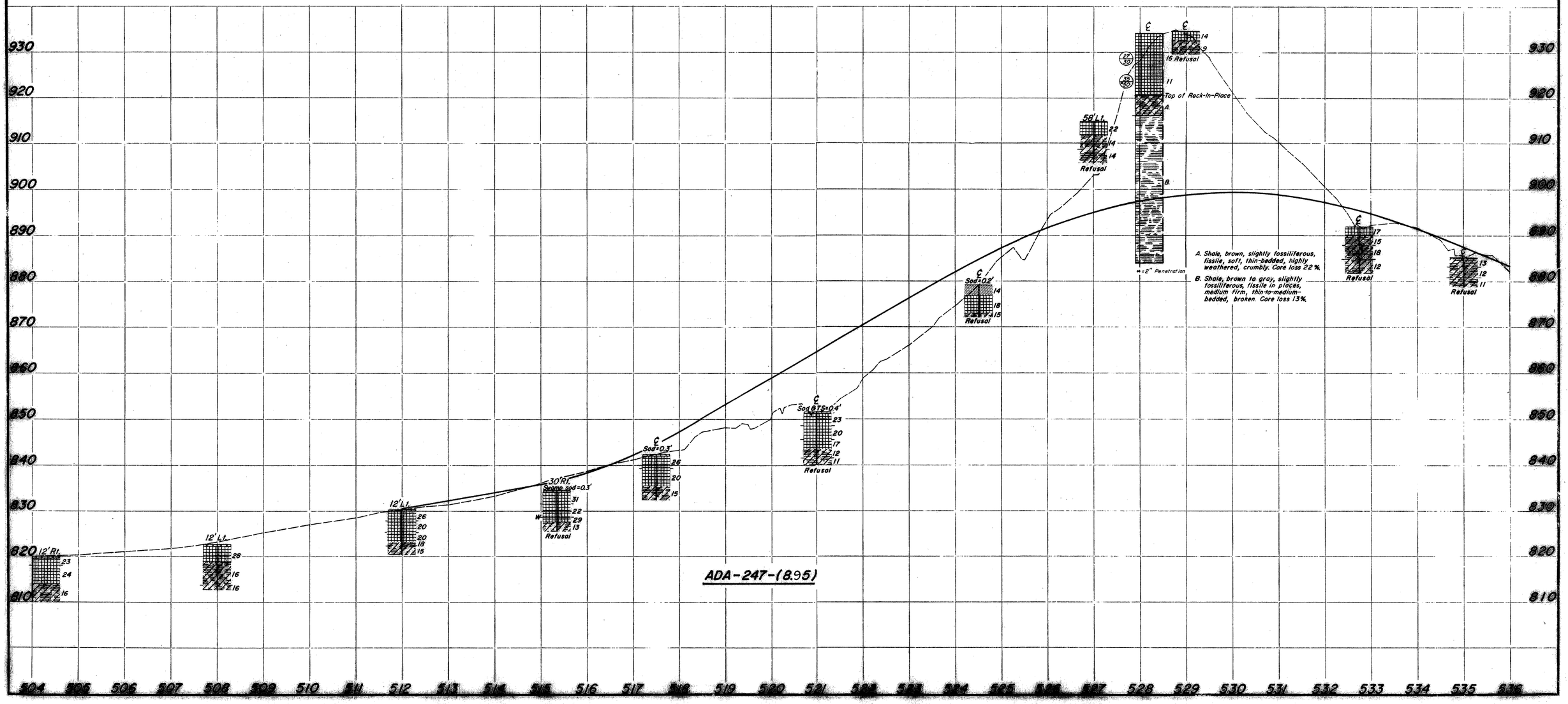


Note: For cross section of Sta. 528+50, see sheet 11.



ADA-247-(8.95)

TE-54 R
800 4 60

SOIL PROFILE

ADAMS COUNTY

ADA-247-(8.95) (14.20)

OHIO STATE HIGHWAY
TESTING LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO

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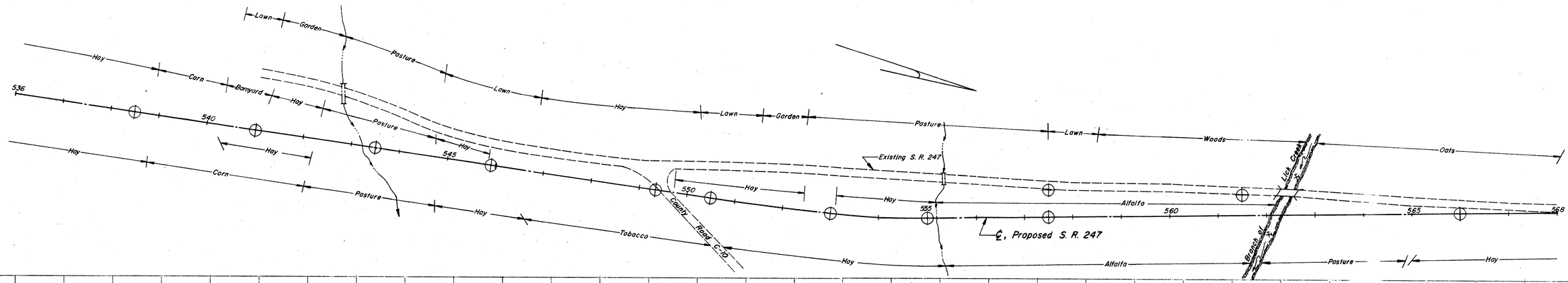

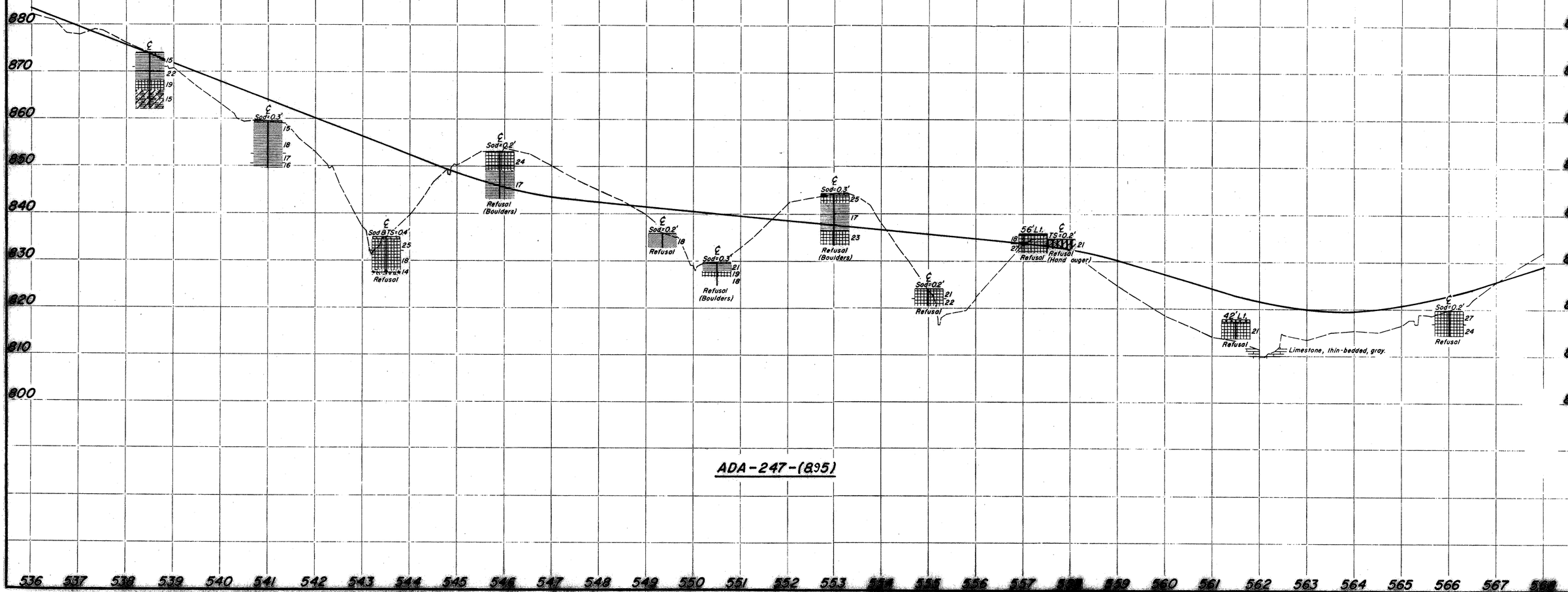

ADA-247-(8.95)

TE.54.B
800.4.60

SOIL PROFILE

ADAMS COUNTY

ADA-247-(8.95) (14.20)

OHIO STATE HIGHWAY
TESTING LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO

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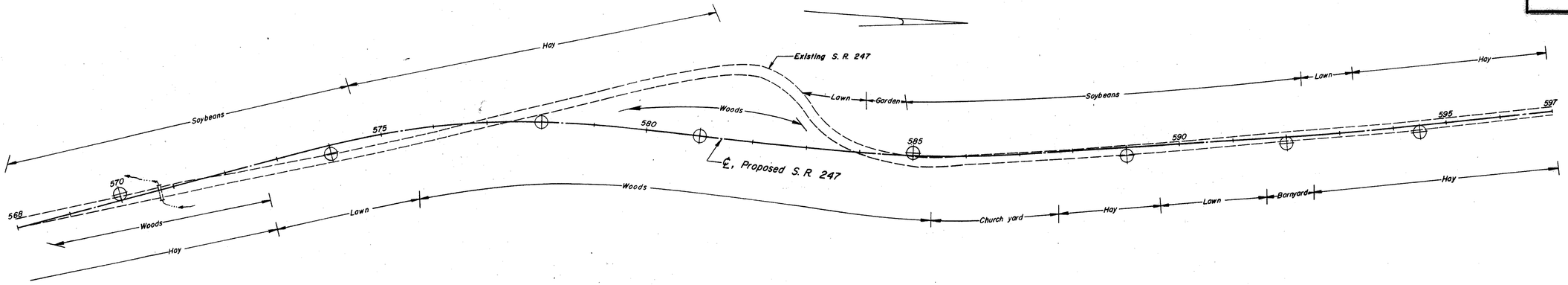

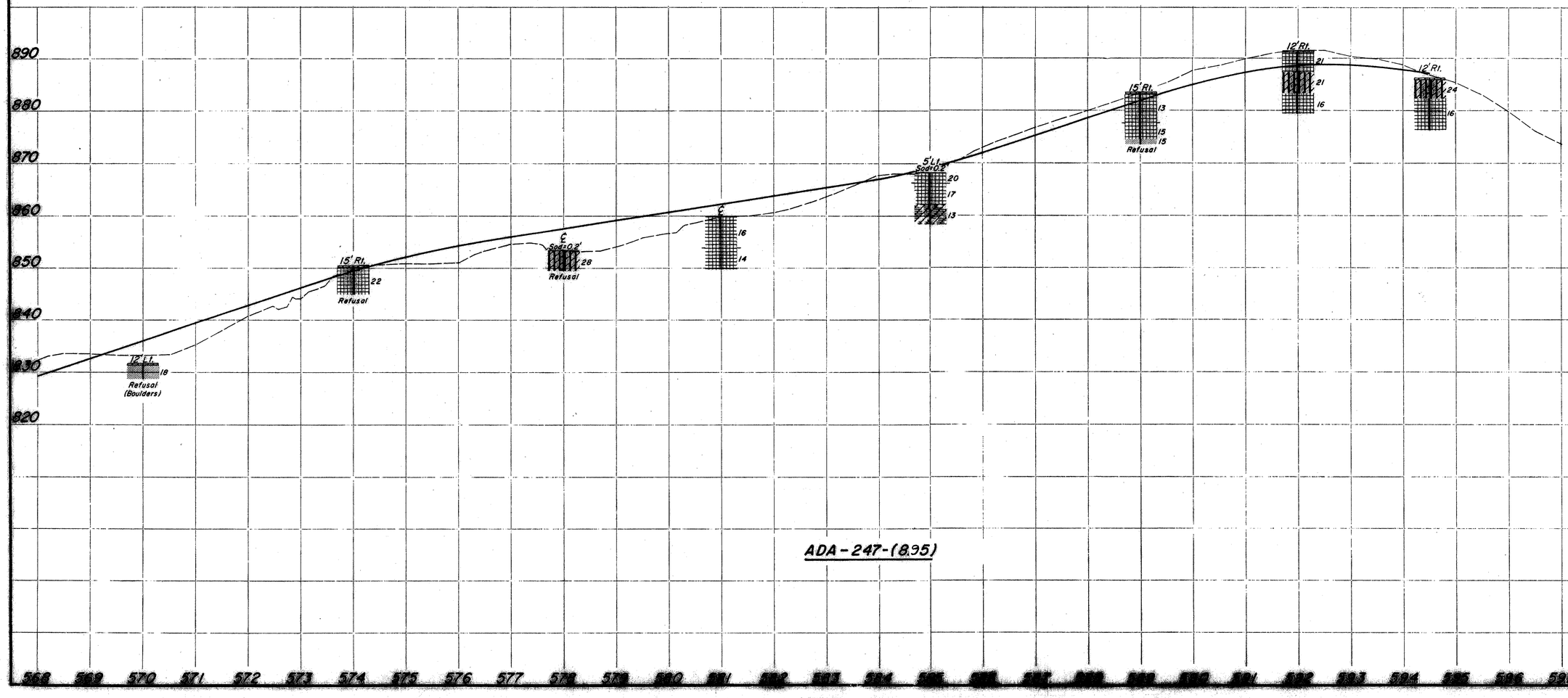

ADA-247-(8.95)

TE.54-B
800.4-60

SOIL PROFILE
ADAMS COUNTY
ADA-247-(8.95) (14.20)

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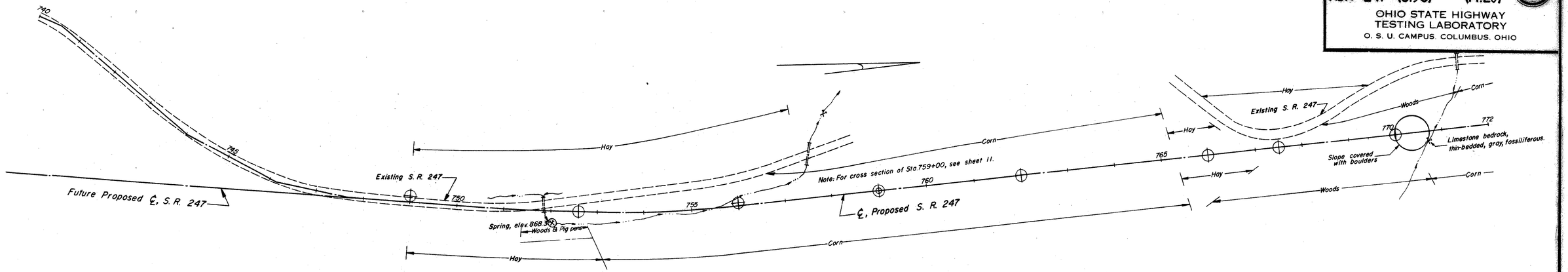
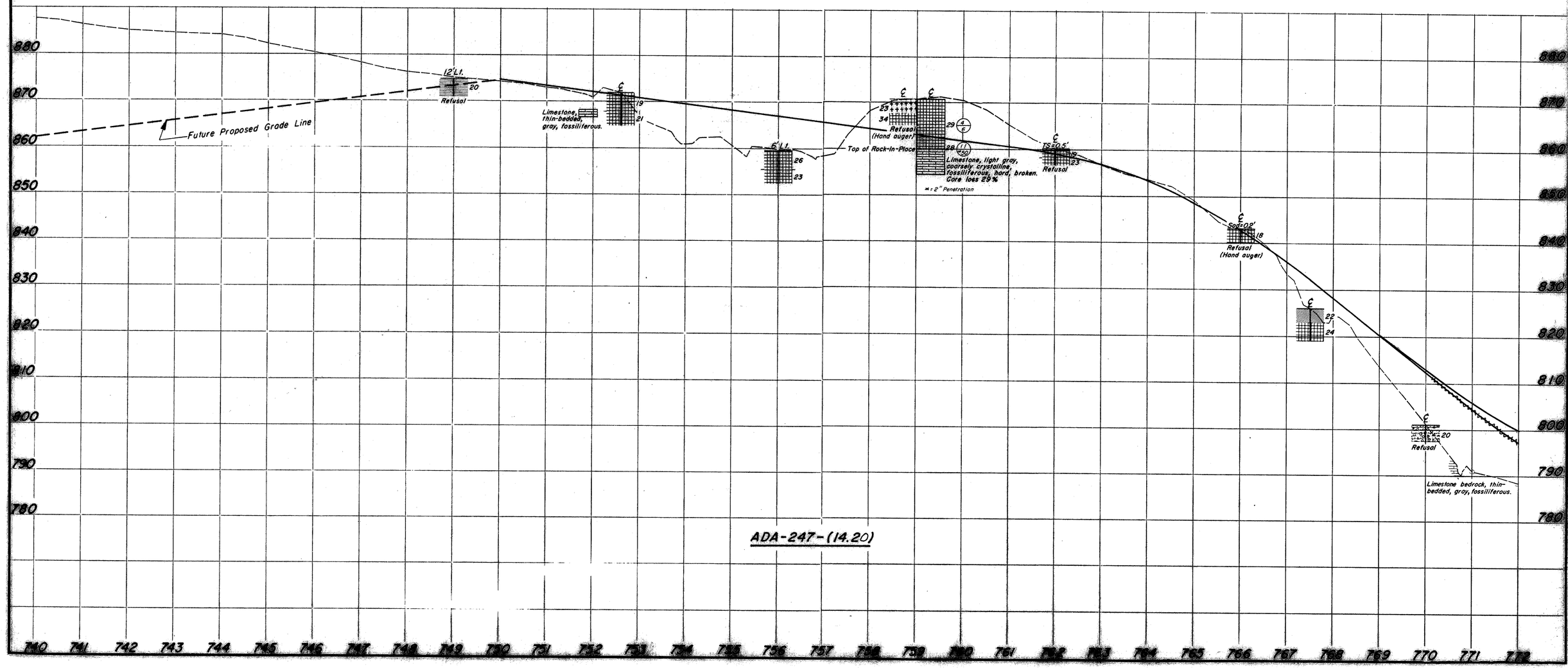
OHIO STATE HIGHWAY
TESTING LABORATORY
O. S. U. CAMPUS. COLUMBUS. OHIO





ADA-247-(14.20)

TE-54-B
800-4-60

SOIL PROFILE

ADAMS COUNTY
ADA-247-(8.95) (14.20)

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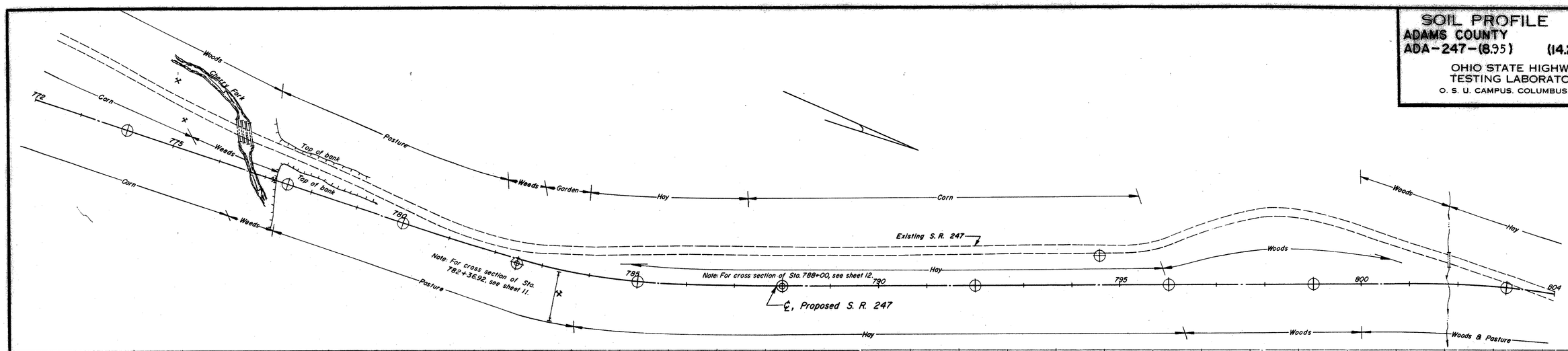
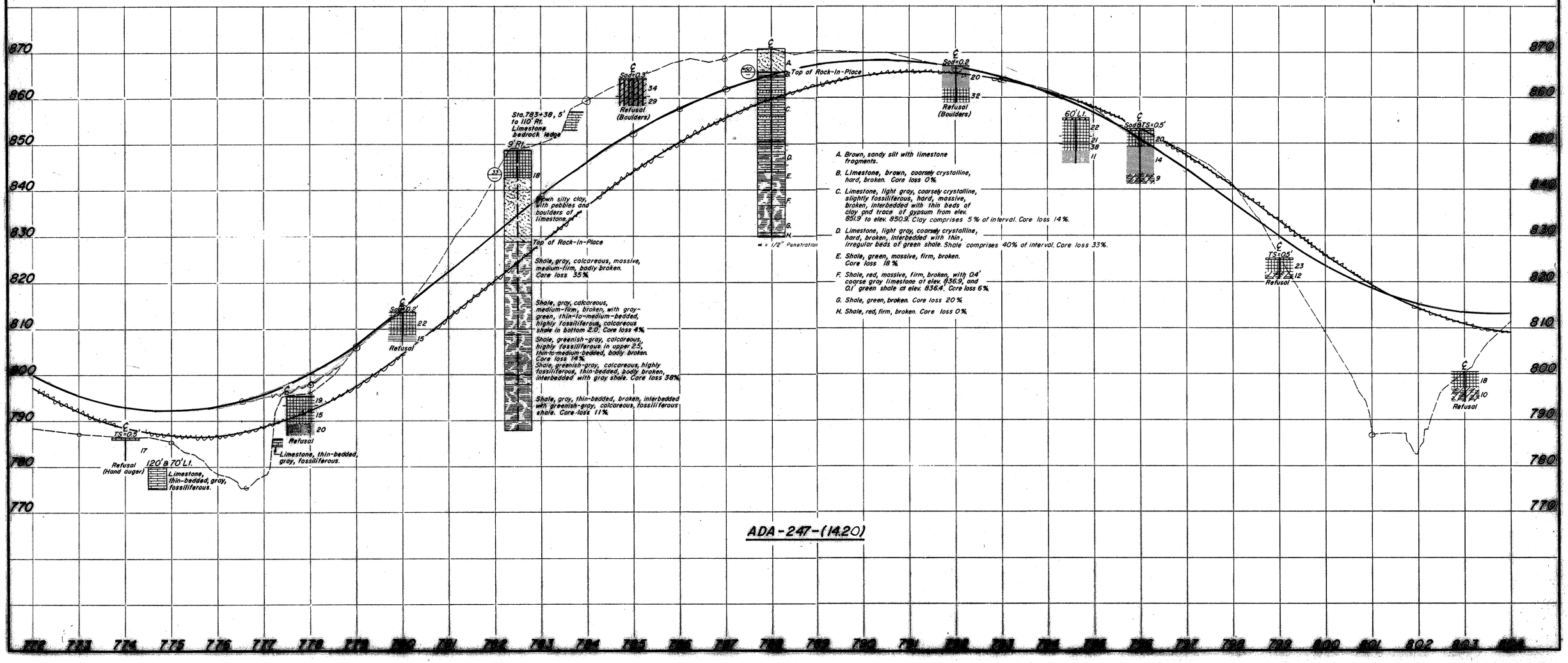
OHIO STATE HIGHWAY
TESTING LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO





ADA-247-(14.20)

TE.54 B
800.4.60

SOIL PROFILE

ADAMS COUNTY
ADA-247-(8.95) (14.20)

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OHIO STATE HIGHWAY
TESTING LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO

Hay | Corn | Hay | Corn | Pasture | Pasture

Note: For cross section of Sta. 805+88.84, see sheet 12.

Note: For cross section of Sta. 812+50, see sheet 12.

℄, Proposed S. R. 247

Existing S. R. 247

804 805 810 815 820 825 Max. 6' cut 830 835 836

Woods & Pasture | Corn | Pasture | Weeds | Pasture

Road No. 1

County

870 860 850 840 830 820 810 800 790 780 770

℄ Sod & TS=0.5' 5' Lt. 19 32 33

℄ Sod & TS=0.5' 21 33 Refusal

Top of Rock-in-Place

℄ Sod & TS=0.5' 19 41 Refusal

℄ 26 26 19 19

15' Lt. Sod & TS=0.5' 18 12 10 Refusal

10' Lt. Sod & TS=10' 18 Refusal

10' Lt. Sod & TS=10' 22 23 20 Refusal

Top of Rock-in-Place

12' Lt. 26 20 13 Refusal

10' Rt. Sod & TS=0.5' 16 10 Refusal

℄ TS=1.0' 18 Refusal

℄ Sod & TS=0.5' 21 20 Refusal

℄ 31 36 Refusal

A. Brown and gray silty clay.

B. Limestone, light gray, coarsely crystalline, fossiliferous, badly broken, interbedded with olive-gray shales. Shale comprises 40% of interval. Core loss 60%.

C. Limestone, light gray, coarsely crystalline, fossiliferous, broken, interbedded with thin-bedded gray shale. Shale comprises 20% of interval. Core loss 70%.

A. Shale, red, calcareous, medium-firm, weathered, broken. Core loss: 19%.

B. Shale, gray, slightly fossiliferous, calcareous, fissile, firm, broken. Core loss 5%.

C. Shale, green to light gray, fossiliferous, calcareous, fissile, firm, broken, interbedded with coarsely crystalline, highly fossiliferous limestone. Limestone comprises 15% of interval. Core loss 10%.

D. Shale, greenish-gray, fissile, firm, broken. Core loss 6%.

E. Shale, greenish-gray, calcareous, fissile, firm, broken, interbedded with coarsely crystalline, highly fossiliferous limestone. Limestone comprises 20% of interval. Core loss 20%.

* = 2" Penetration

ADA-247-(14.20)

TE-54-B
800-4-60

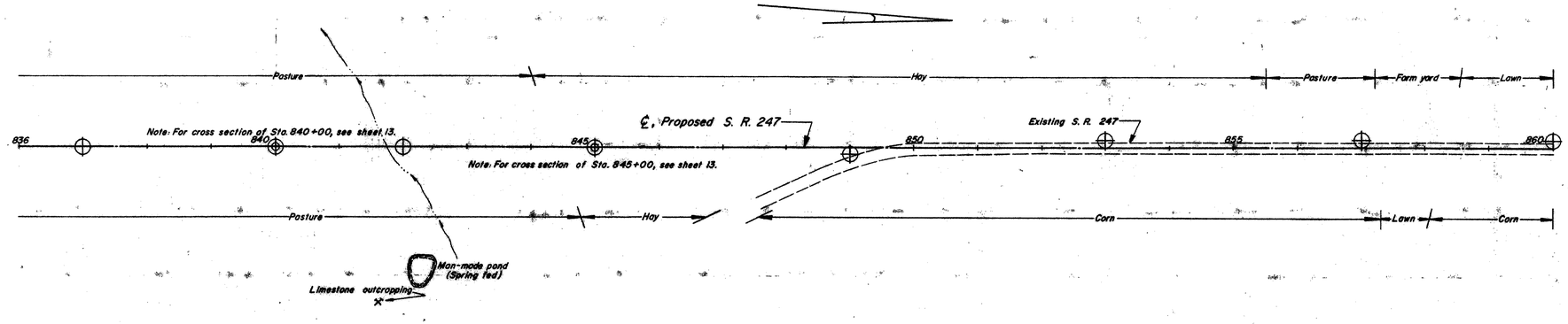
SOIL PROFILE

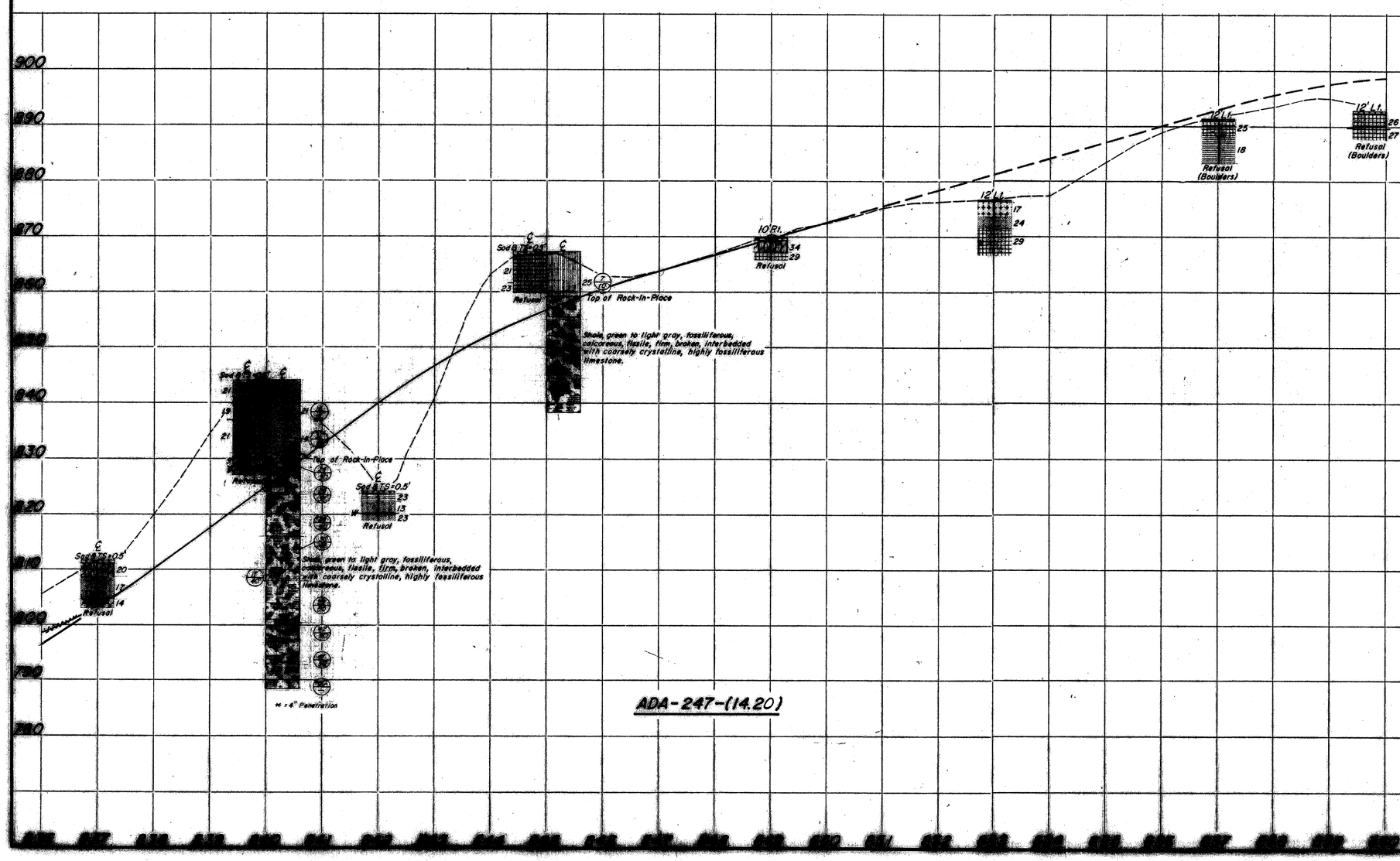
ADAMS COUNTY

ADA-247-(8.95) (14.20)

OHIO STATE HIGHWAY TESTING LABORATORY

O. S. U. CAMPUS. COLUMBUS. OHIO

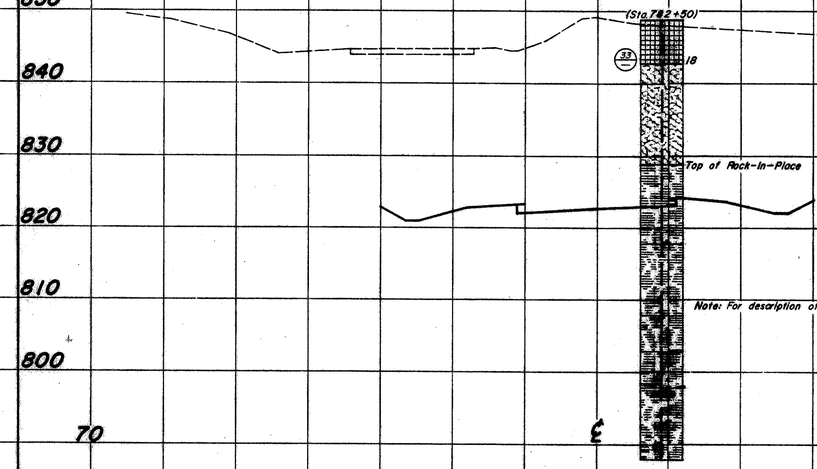




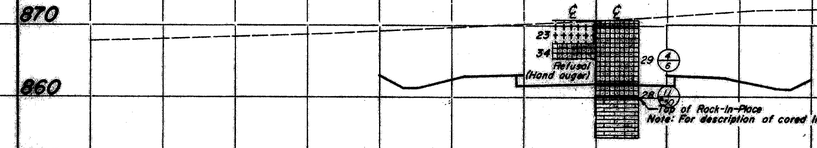
ADA-247-(14.20)

TE-54.8
600.4.60

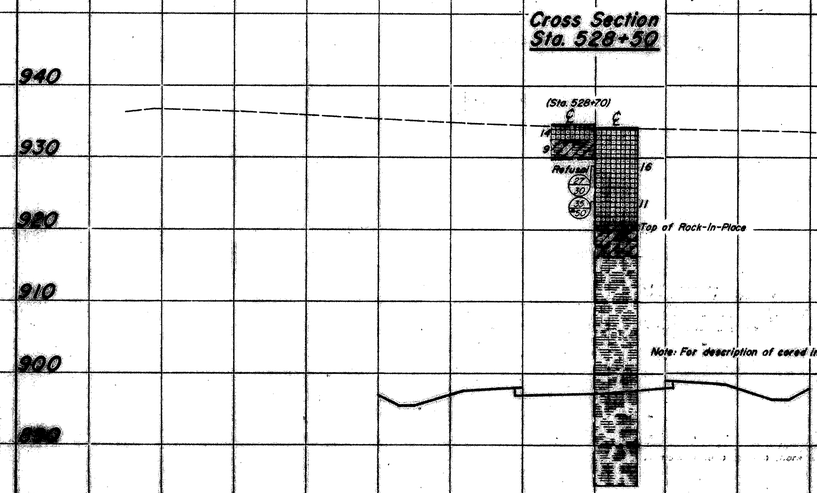
Cross Section Sta. 782+36.92 SEE CORRECTED PROFILE



Cross Section Sta. 759+00



Cross Section Sta. 528+50



SOIL PROFILE

ADAMS COUNTY
ADA-247-(8.95) (14.20)

OHIO STATE HIGHWAY
TESTING LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO

11
13

TE 54 B
8/10 4 60

SOIL PROFILE

ADAMS COUNTY
ADA-247-(8.95) (14.20)

OHIO STATE HIGHWAY
TESTING LABORATORY
O. S. U. CAMPUS. COLUMBUS, OHIO

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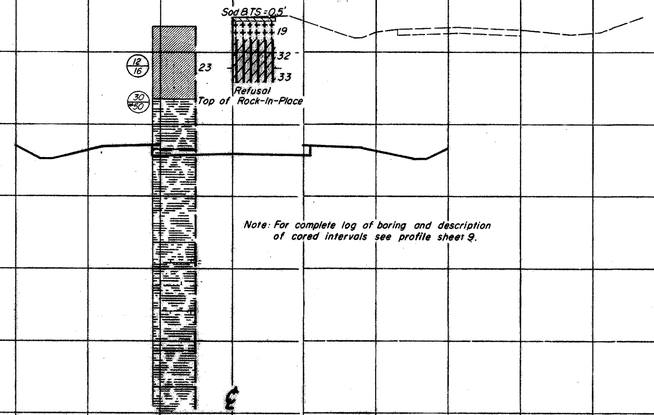
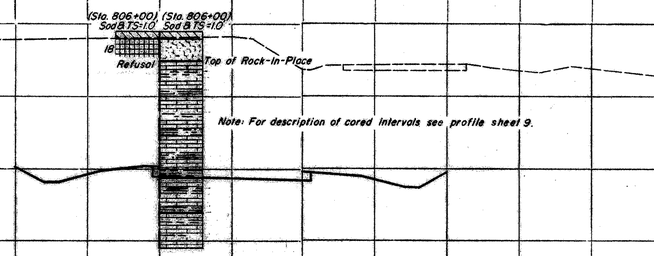
Cross Section Sta. 812+50 ⊕



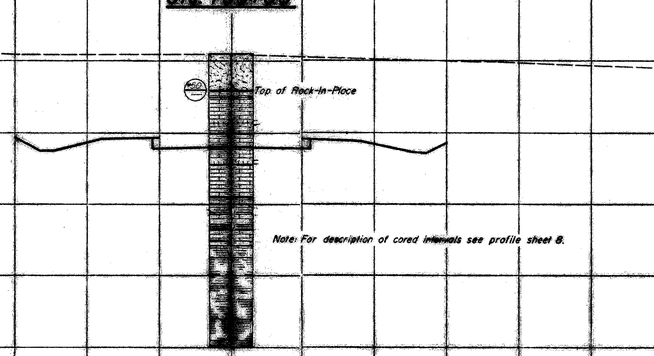
Note: For complete log of boring and description of cored intervals see profile sheet 9.

Cross Section Sta. 805+88.84 ⊕



Note: For description of cored intervals see profile sheet 9.

Cross Section Sta. 799+00 ⊕ SEE CORRECTED PROFILE



Note: For description of cored intervals see profile sheet 8.

TE-54-B
800-4-60

SOIL PROFILE

ADAMS COUNTY
ADA-247-(8.95) (14.20)

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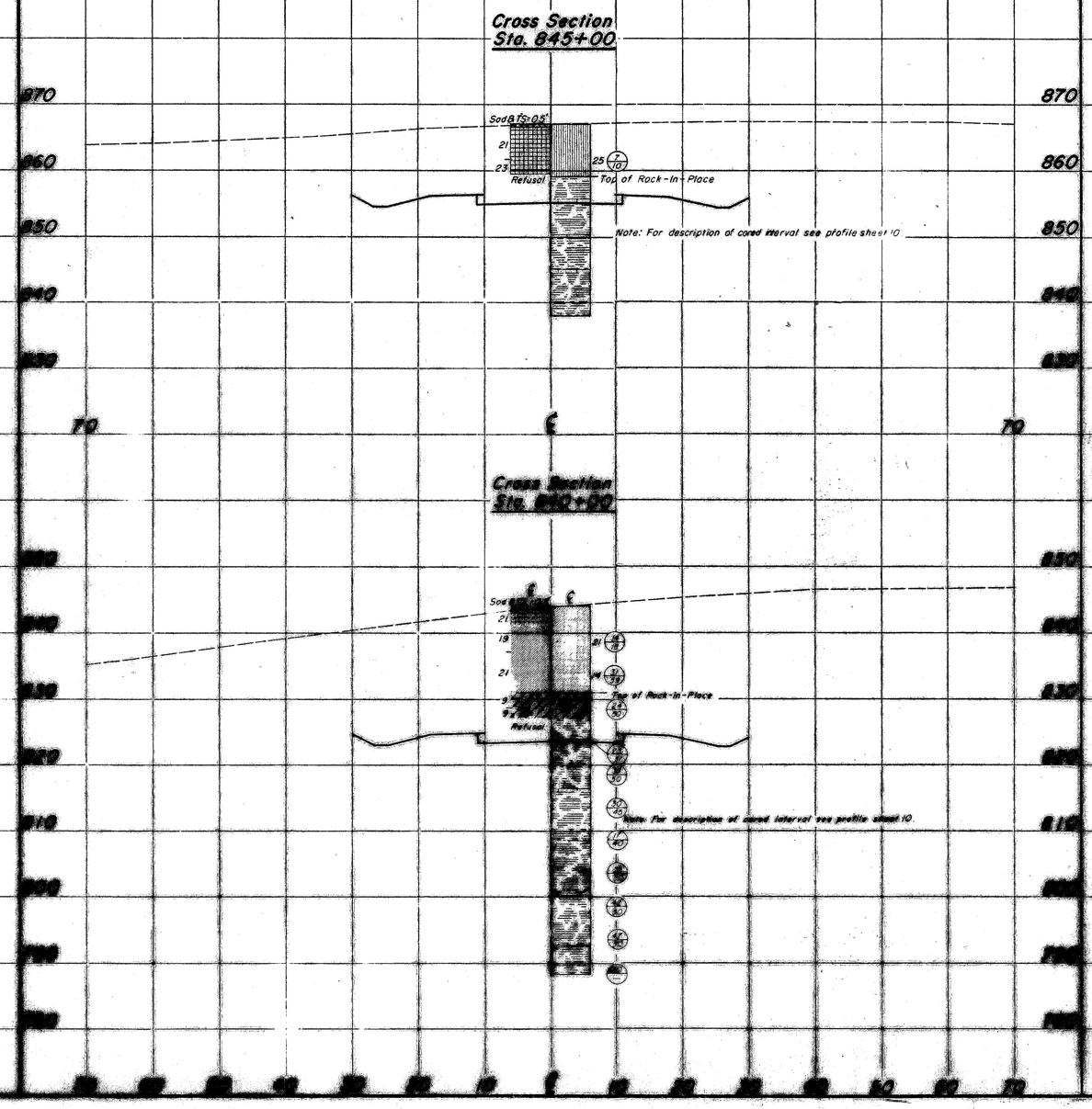
OHIO STATE HIGHWAY
TESTING LABORATORY
O. S. U. CAMPUS, COLUMBUS, OHIO



ADA-247-(8.95)(14.20)
BIN A-4
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