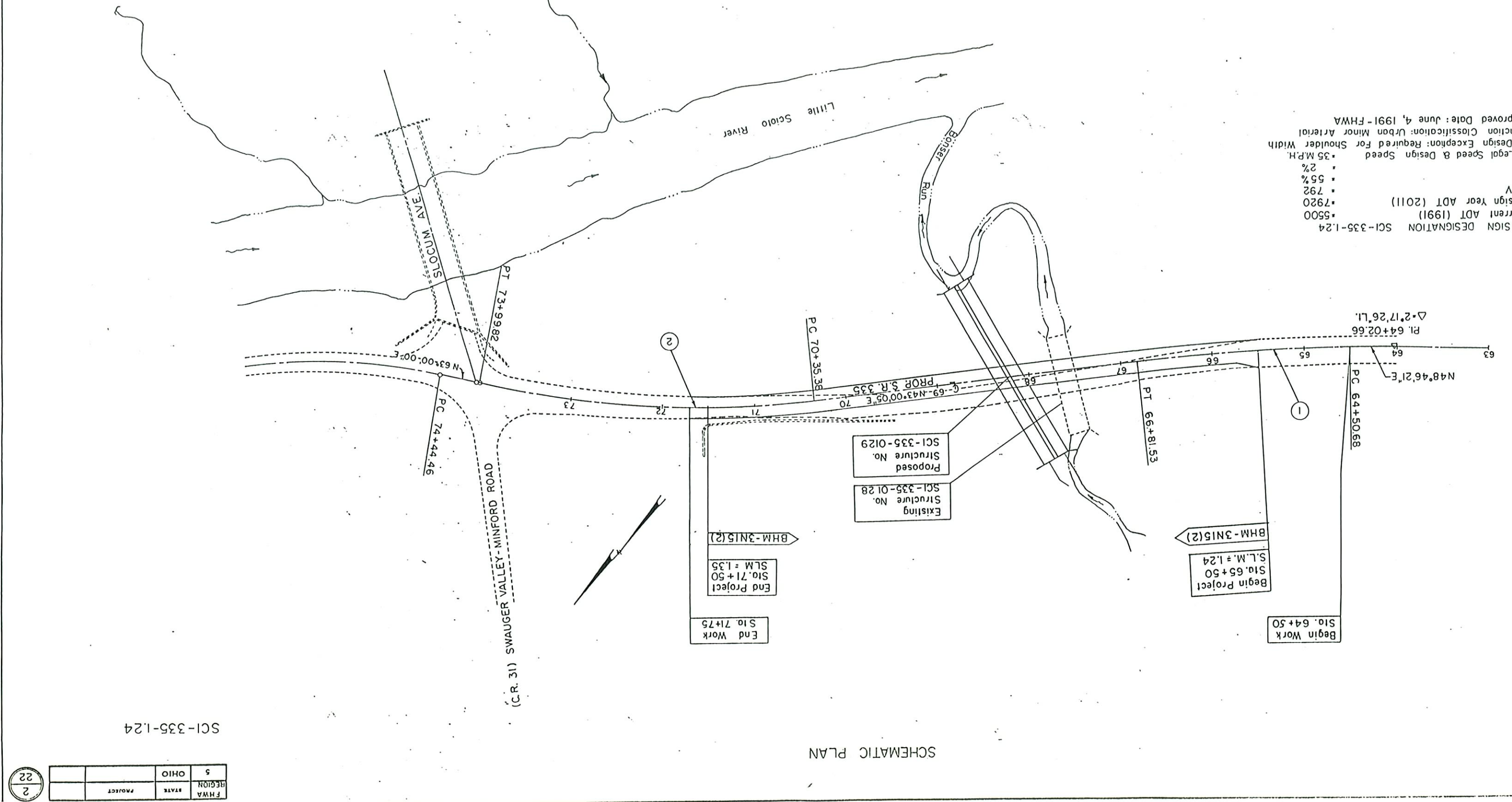


PROPOSED CURVE DATA		
CURVE NO	1	2
L STA	65+66.20	72+19.48
C STA	64+50.68	70+35.38
T STA	66+81.53	73+99.82
Δ	5°-46'-16.51"	20°-02'-40"
D	2°-30'	5°-30'
R	2291.83'	1041.74'
T	115.52'	184.10'
L	230.85'	364.44'
E	2.91'	16.13'

DESIGN DESIGNATION SCI-335-1.24
 Current ADT (1991) +5500
 Design Year ADT (2011) +7920
 DHV
 * Legal Speed & Design Speed +35 M.P.H.
 * Design Exception: Required For Shoulder Width
 Function Classification: Urban Minor Arterial
 Approved Date: June 4, 1991 - FHWA

SCHEMATIC PLAN			
BARRETT, CARO, WITHERS AND ASSOCIATES, LTD.	Consulting Engineers	249 S. Paint Street	Chillicothe, Ohio
DATE	DATE	DATE	DATE
DESIGNED	DRAWN	CHECKED	REVIEWED
WIC	AJB	AJB	AJB



SCI-335-1.24

SCHEMATIC PLAN

2	22
FHWA	STATE
OHIO	PROJECT
5	

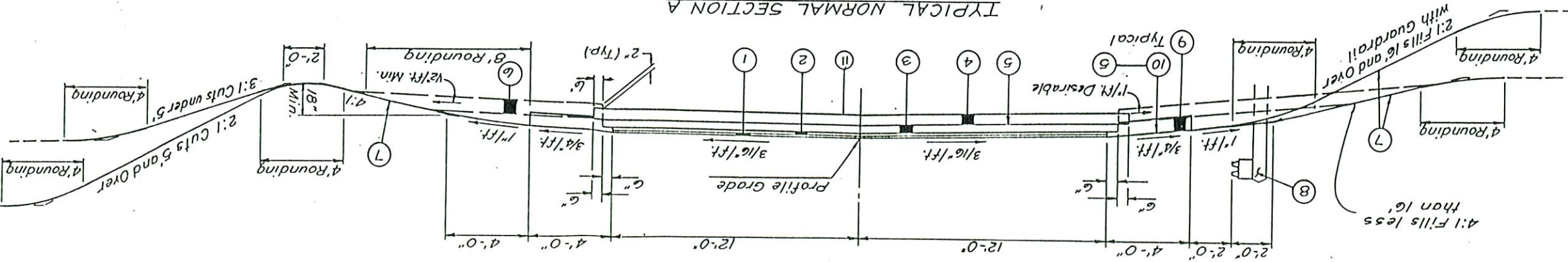
Sta. 71+50 (w=24') to Sta. 71+75 (w=23.85')

*Existing

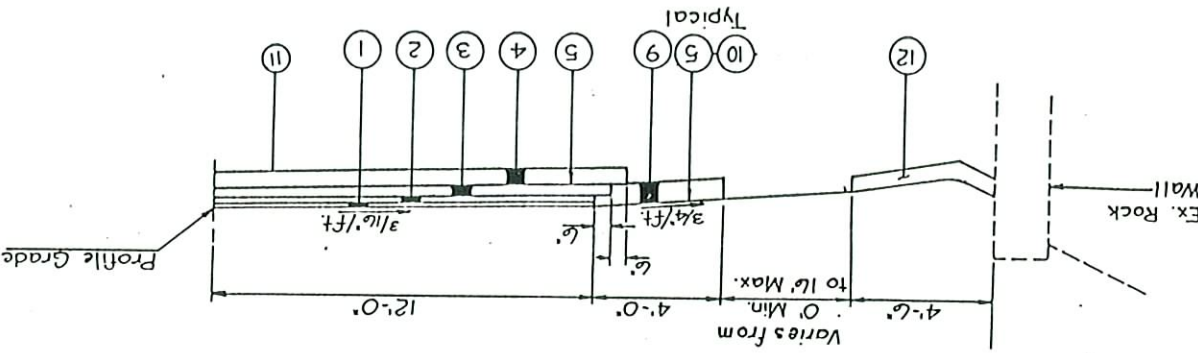
SCI-335-124

[illegible]

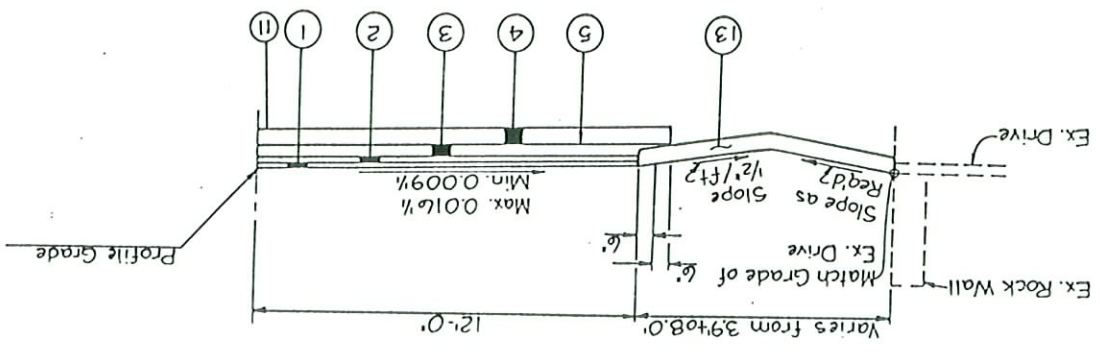
Applies between 5to.65+75 to 5to.71+50 = 575 L.F



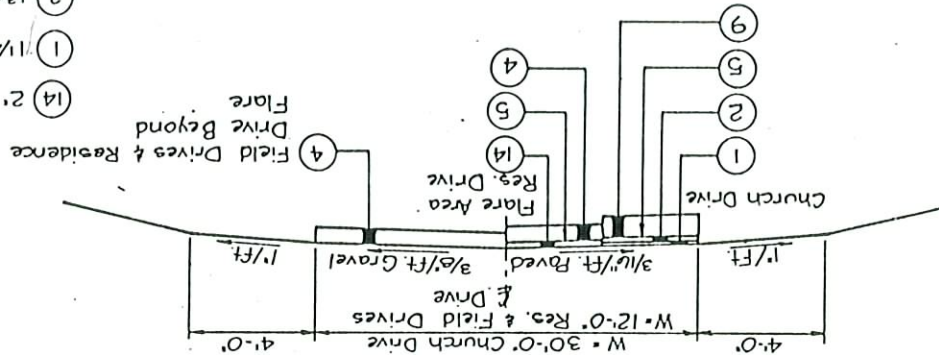
Applies between Sta. 69+45 to Sta. 70+77 = 132 L.F.



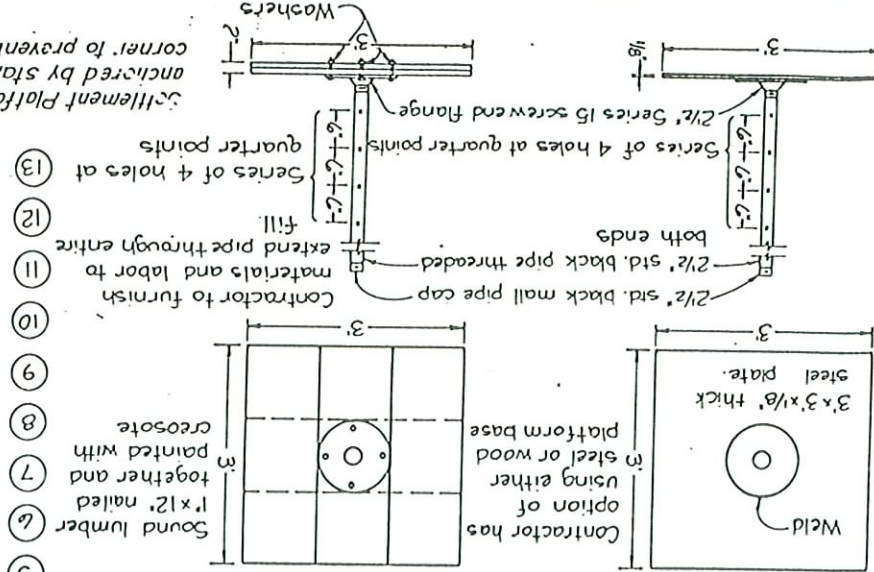
Applies between Sta. 70+77 to Sta. 71+75 = 98 L.F.



TYPICAL DRIVE SECTION



DETAILS OF SETTLEMENT PLATFORMS



Settlement Platform, shall be placed as indicated in the plans or as indicated by the Engineer to measure embankment settlement. 3 Platforms Required. See General Notes.

TYPICAL SECTIONS

BARRETT, CARGO, WITHERS AND ASSOCIATES, LTD.
Consulting Engineers
249 S. Paint Street
Chillicothe, Ohio

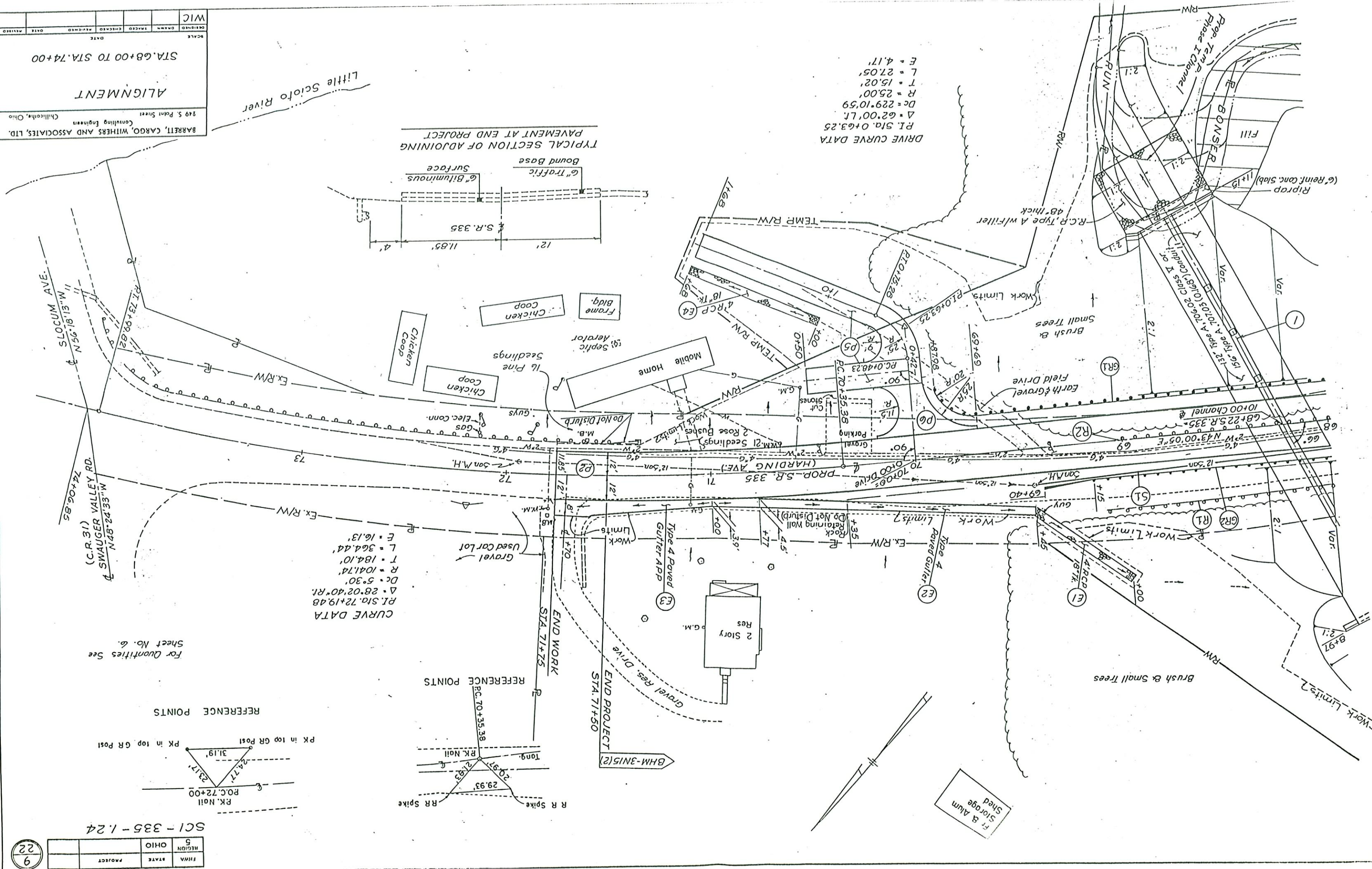
WIC	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION
DESIGNED	DATE	REVISION	DATE	REVISION	DATE	REVISION	DATE	REVISION

SCALE

STA. 68+00 TO STA. 74+00

ALIGNMENT

BARRETT, CARGO, WITHERS AND ASSOCIATES, LTD.
Consulting Engineers
349 S. Point Street
Chillicothe, Ohio



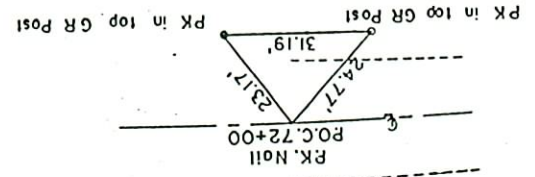
DRIVE CURVE DATA

P.I. Sta. 0+63.25
 $\Delta = 62.00^\circ$
 $D_c = 229.1059$
 $R = 25.00'$
 $T = 15.02'$
 $L = 27.05'$
 $E = 4.17'$

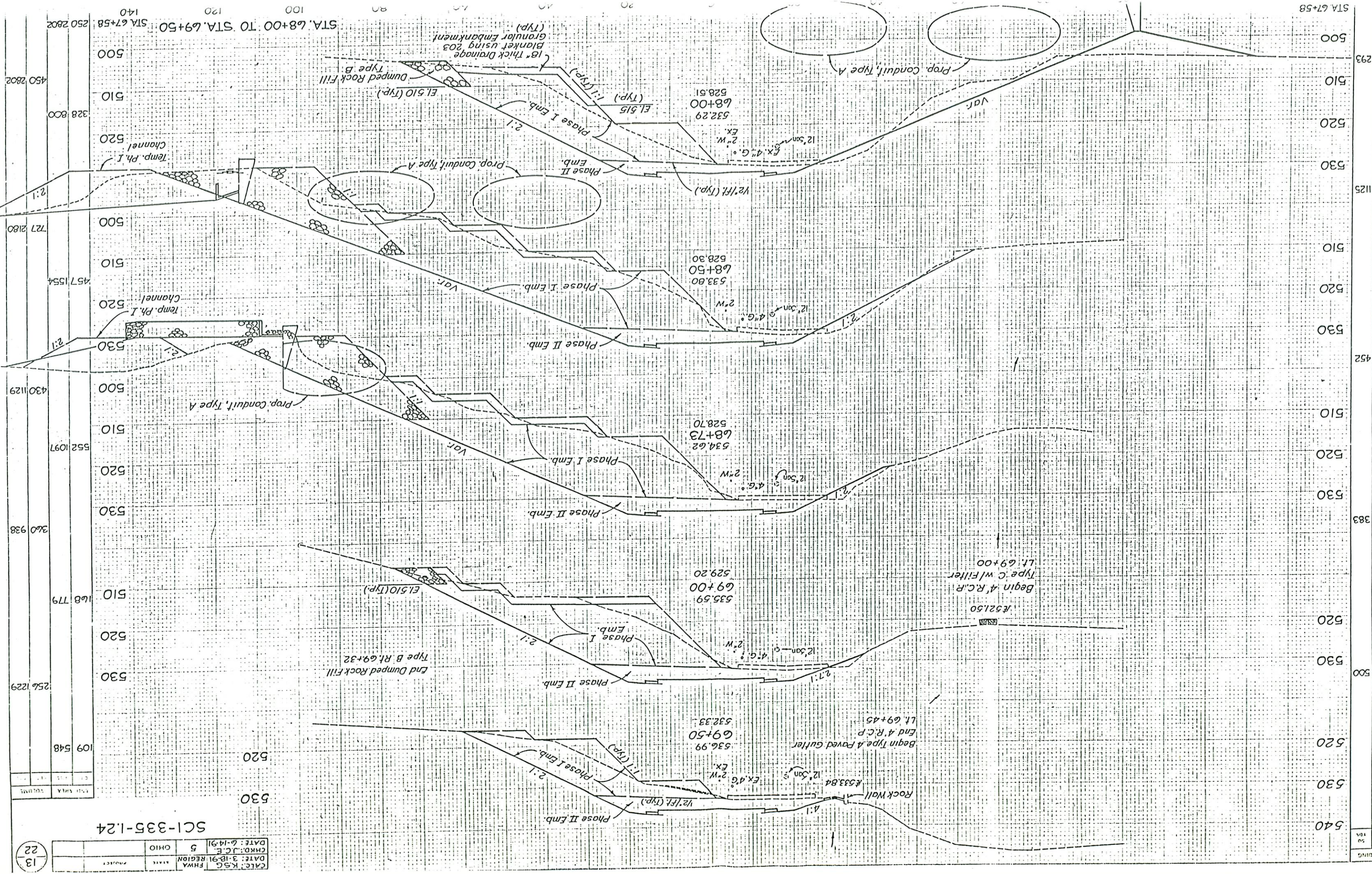
CURVE DATA

P.I. Sta. 72+19.48
 $\Delta = 28^\circ 02' 40''$
 $D_c = 5.30'$
 $R = 104.74'$
 $T = 18.410'$
 $L = 36.44'$
 $E = 16.13'$

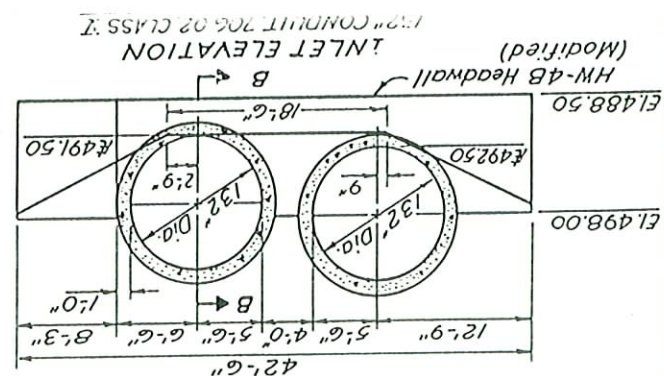
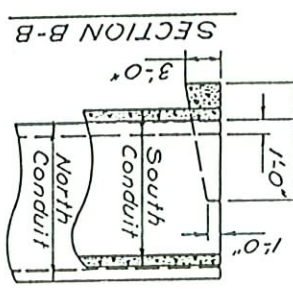
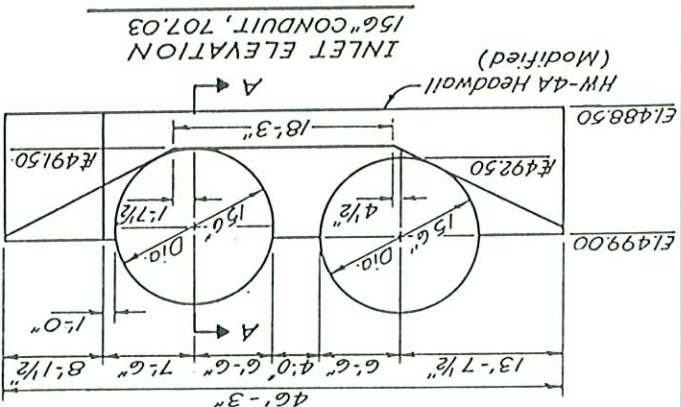
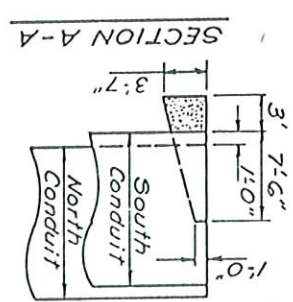
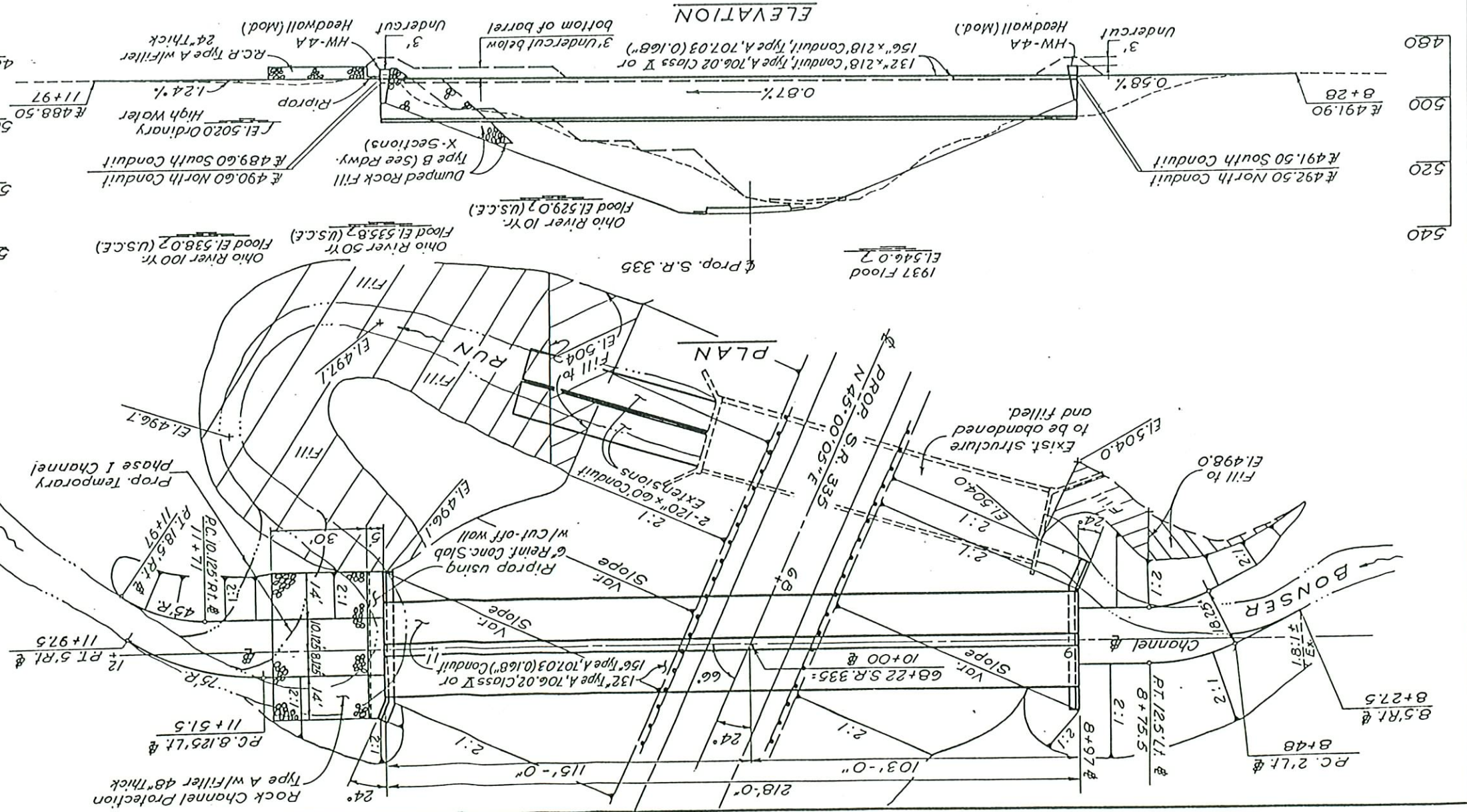
REFERENCE POINTS



SCI - 335 - 1.24



HYDRAULIC DATA



ESTIMATED QUANTITIES

for payment.

Special Fill and Plug existing culvert and extensions 170 Lin. Ft.

603 132" Conduit, Type A, 706.02, Class V or
156" Conduit, Type A, 707.03, (0.168")
436 Lin. Ft.

$$46.89(1) \times 2.29(w) \times 10.5(h) \times 127 = 41.13 \text{ g}$$

602 Concrete Masonry 63.8 Cu.Yds

601 Rock Channel Protection, Type A w/Filter
 $46.25' \times 30' \times 4' \times 1/27 = 205.55 \text{ CY}$
 200 cu. yds.

$$(5 \times 46.25) - (5.60 \times 2.49 \div 2) \times 1/9 = 249.25 \times$$

601 Riprap using 6" Reinforced Concrete Slab
25 Sq. Yds.

FIELD APPLIED CORROSION
OF CORRUGATED METAL
STRUCTURAL PLATE CONDUITS

① CONDUIT STA. 68+22

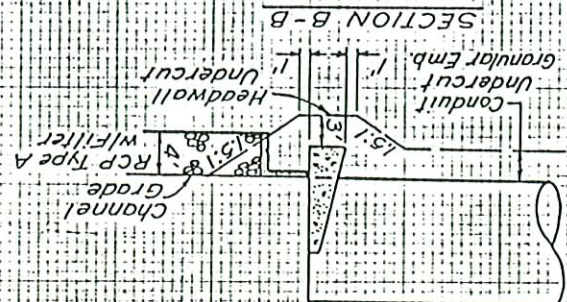
WIC	JCE	JCE					
SERIALS	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED	
SCALE							
STA. 68+22							
① CONDUIT							
BARRETT, CARGO, WITHERS AND ASSOCIATES, LTD. Consulting Engineers 249 S. Palm Street Chillicothe, Ohio							

SCI - 335 - 1.24

END AREA	VOLUME
0	0
79	318
101	409



Sta. 12+00

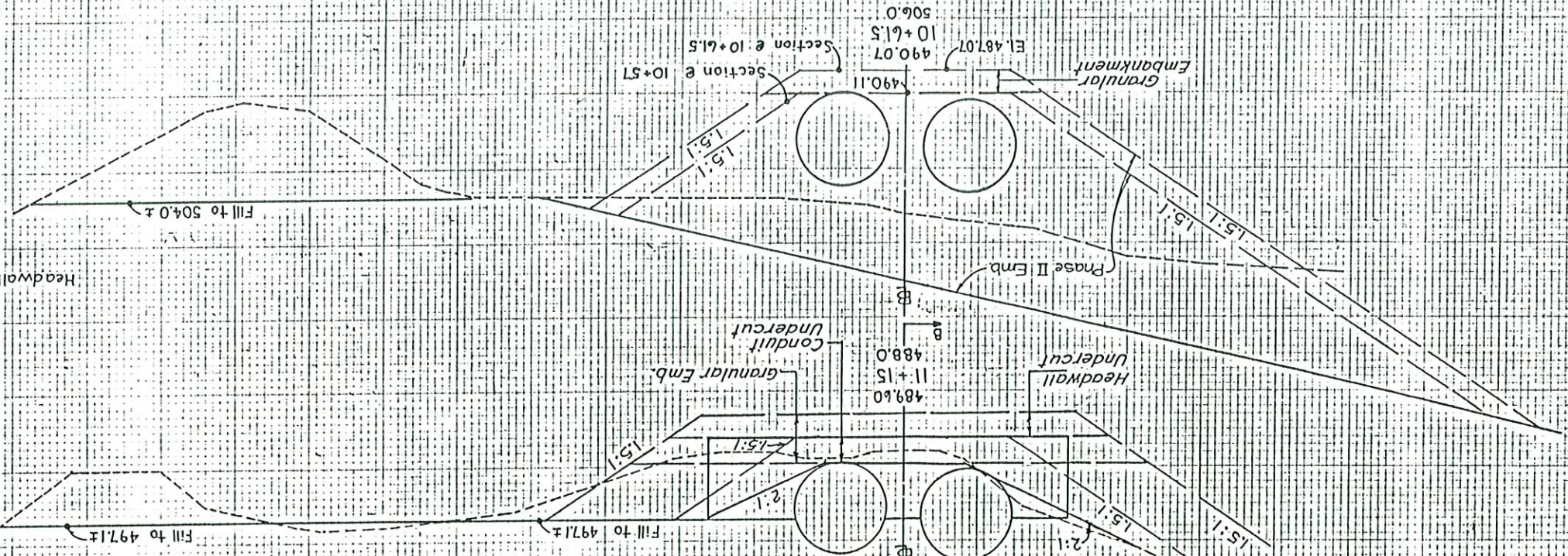


SECTION B-B

0+0 SECTION STA. 12+00

END AREA	VOLUME
0	0
59	11+24
354	11+15
601	11+10
354	11+05.5
194	10+61.5
8	10+57
0	10+58

TOTAL 405



Section E 10+57

Section E 10+61.5

Granular Embankment

Phase II Emb

Headwall

Undercut

Granular Emb.

Conduit

Undercut

Headwall

Undercut

END AREA	VOLUME
0	0
178	413
925	2332
1213	2620
925	2332
405	TOTAL

TOTAL 405

CHANNEL SECTIONS

Sta. 10+07 to 11+58

Sta. 9+61

Sta. 10+07

10+07

490.54

524.5

Sta. 9+61

490

500

510

520

530

540

550

560

570

580

590

600

610

620

630

640

650

660

670

680

690

700

710

720

730

740

750

760

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850

860

870

880

890

900

910

920

930

940

950

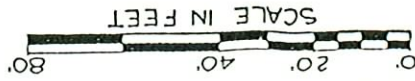
960

970

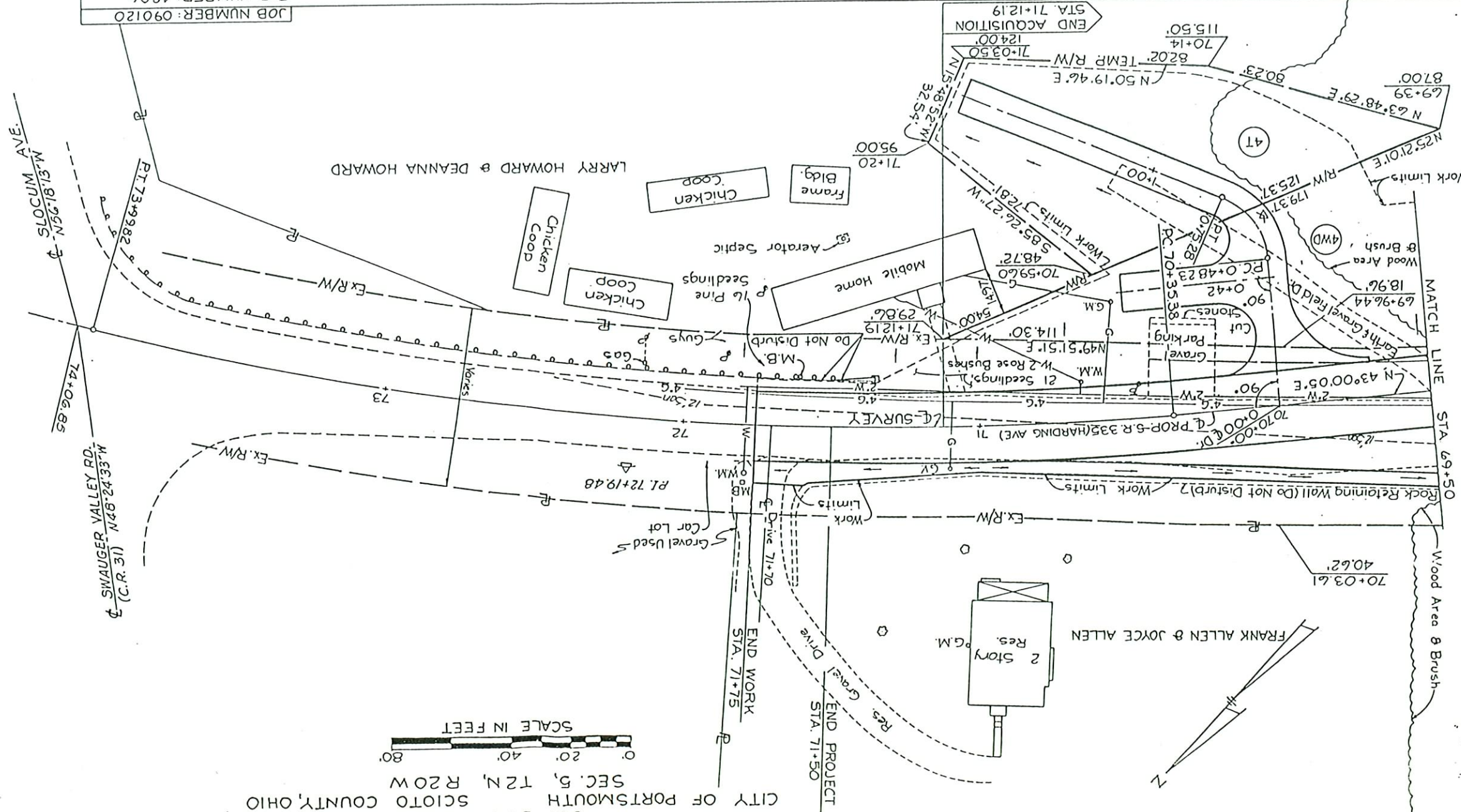
980

990

1000



CURVE DATA
P.L. STA. 72+19.48
D.C. = 5° 30' 00"
Δ = 20° 02' 40"
P.L. STA. 0+63.25
D.C. = 62° 00' 00" LT
Δ = 62° 00' 00" LT
D.C. = 22° 9' 10" 59"
R = 25.00'
T = 15.02'
L = 27.05'
E = 4.17'



SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

TOTAL NUMBER OF:	4
OWNERSHIPS	0
TOTAL TAKES	0
OWNERSHIPS WITH STRUCTURES INVOLVED	0
OWNERSHIPS WITH P. ITEMS	0

[illegible]

NOTE 1: 18 month time span on temporaries

NOTE 2: Lillian M. Herdman and Diana F. Herdman,
Land Contract Holders, Mtg. V.662, P.862

* Approximate acreage of occupation

[illegible]