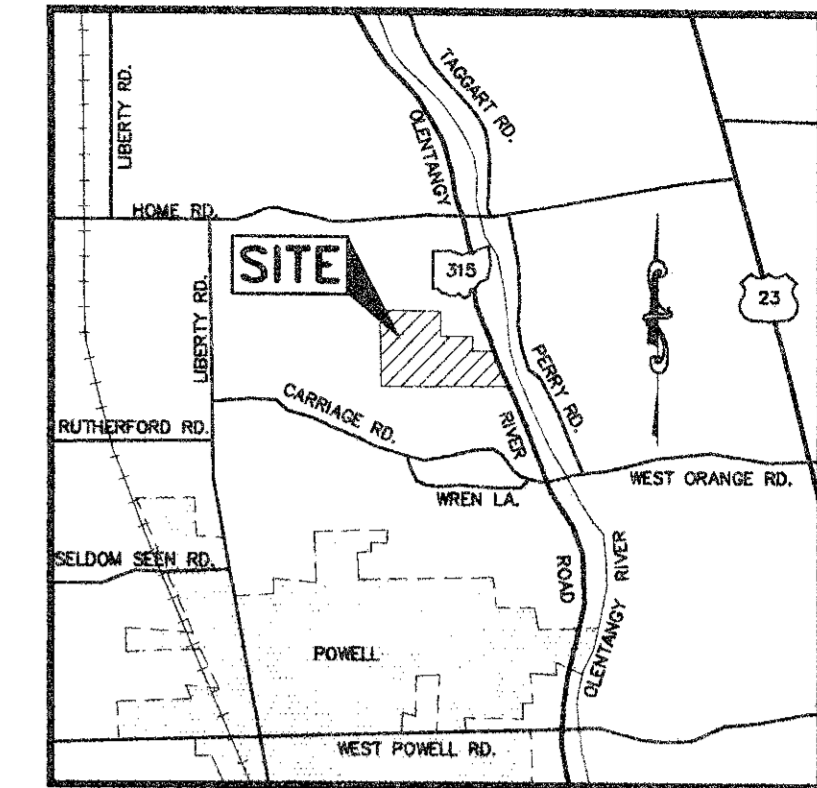


STREET, STORM, WATER IMPROVEMENTS FOR  
**WOODLAND HALL**  
 SECTION 1, TOWNSHIP 3, RANGE 19, USML  
 LIBERTY TOWNSHIP, DELAWARE COUNTY, OHIO

JULY, 2000



LOCATION MAP  
NO SCALE

GENERAL SUMMARY

|                        |              |
|------------------------|--------------|
| NUMBER OF LOTS         | 49           |
| TOTAL ACRES            | 127.71       |
| ZONING                 | FR-1         |
| MINIMUM LOT SIZE       | 1.5 AC       |
| MINIMUM FRONTAGE       | 150'         |
| FRONT YARD SETBACK     | 90' FROM E   |
| SIDE YARD SETBACK      | 25'          |
| REAR YARD SETBACK      | 60'          |
| DENSITY                | 2.60 ACRE/DU |
| TERRAIN CLASSIFICATION | ROLLING      |
| STREET CLASSIFICATION  | LOCAL        |

THE SITE IS LOCATED IN A DESIGNATED FEMA FLOOD PLAIN PER DELAWARE COUNTY PANEL 216 MAP NUMBER 39041 C0216J EFFECTIVE DATE APRIL 21, 1999 ZONE C.

SHEET INDEX

|       |                                     |
|-------|-------------------------------------|
| 1     | COVER SHEET                         |
| 2     | NOTES, DETAILS & QUANTITIES         |
| 3     | INTERSECTION AND CUL-DE-SAC DETAILS |
| 4-9   | STREET PLAN AND PROFILES            |
| 10-11 | OFFSITE WATERLINE PLAN AND PROFILES |
| 12    | STORM PROFILE                       |
| 13-16 | GRADING AND EROSION PLAN            |
| 17    | EROSION CONTROL AND DETAILS         |
| 18-26 | STREET CROSS SECTIONS               |

APPROVALS

THE DELAWARE COUNTY ENGINEER'S ENGINEERING, CONSTRUCTION AND SURVEYING STANDARDS, THE CURRENT STANDARD SPECIFICATIONS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION (ENGLISH UNITS), INCLUDING STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS LISTED SHALL GOVERN THIS IMPROVEMENT.

THE DELAWARE COUNTY SIGNATURES ON THIS PLAN SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND LOCATION OF THE PROPOSED IMPROVEMENT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE PROFESSIONAL ENGINEER WHO PREPARED AND CERTIFIED THESE PLANS.

DELAWARE COUNTY ENGINEER

CHRIS BAUSERMAN \_\_\_\_\_ DATE \_\_\_\_\_

DELAWARE COUNTY COMMISSIONERS \_\_\_\_\_ DATE \_\_\_\_\_

\_\_\_\_\_ DATE \_\_\_\_\_

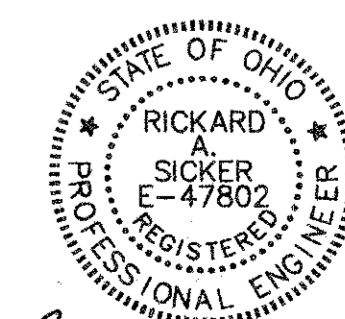
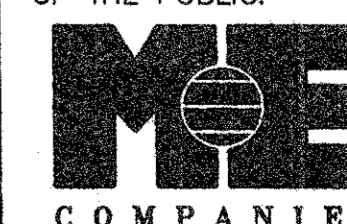
\_\_\_\_\_ DATE \_\_\_\_\_

WATER SYSTEM APPROVAL \_\_\_\_\_ DATE \_\_\_\_\_

MANAGER, DEL-CO WATER \_\_\_\_\_ DATE \_\_\_\_\_

ENGINEER:

THIS IS TO CERTIFY THAT GOOD ENGINEERING PRACTICES HAVE BEEN UTILIZED IN THE DESIGN OF THIS PROJECT AND THAT ALL MINIMUM STANDARDS AS DELINEATED IN THE DELAWARE COUNTY ENGINEERING AND SURVEYING STANDARDS FOR SUBDIVISION DEVELOPMENT HAVE BEEN MET, INCLUDING THOSE STANDARDS GREATER THAN MINIMUM WHERE, IN MY OPINION, THEY ARE NEEDED TO PROTECT THE SAFETY OF THE PUBLIC.



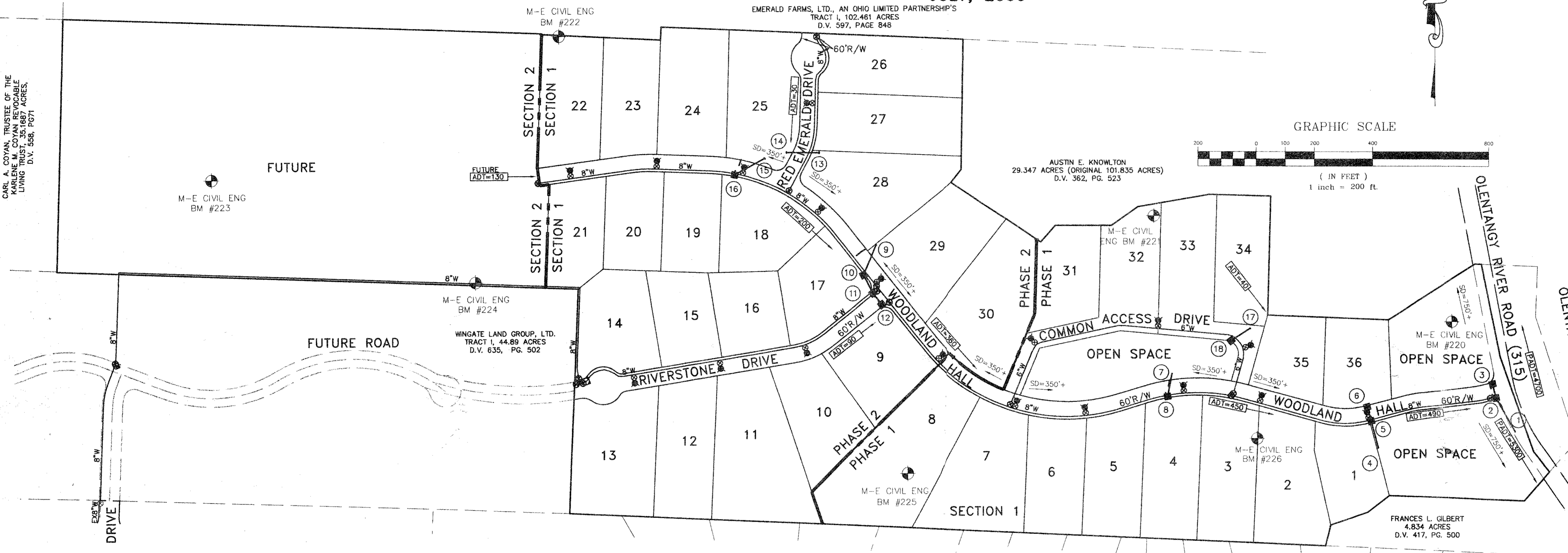
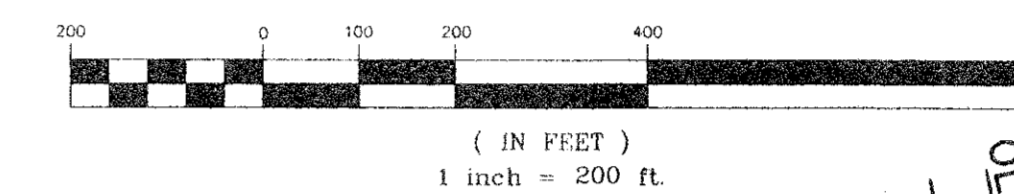
Rickard A. Sicker 47802  
REGISTERED ENGINEER NO.

Civil Engineering Group  
635 Brookside Boulevard  
Westerville, OH 43081  
Contact: THOM RIES  
614-818-4900 Ext. 233  
Fax 618-4902

8/4/00  
DATE

1  
26

GRAPHIC SCALE



BENCHMARKS

**MASTER BENCHMARK**  
 M-E CIVIL ENG. BM # \_\_\_\_\_  
 RAILROAD SPIKE FOUND IN E. SIDE OF UTILITY POLE #342-31, 1ST POLE S. OF A 2 STORY WHITE HOUSE LOCATED SOUTH OF A LARGE WHITE BARN ON THE W. SIDE OF S.R. 315. ELEV.=791.90' (NAVD 1988)

**SOURCE BENCHMARKS**  
 M-E CIVIL ENG. BM # 220  
 RAILROAD SPIKE SET IN THE S. SIDE OF A TWIN 18" TREE, APPROX 150' W. OF S.R. 315 ALONG A RAIL FENCE, 100' S. OF N. PROP. LINE. ELEV.=803.96'

M-E CIVIL ENG. BM #221  
 RAILROAD SPIKE SET IN THE S.E. ROOT OF A 16" TREE, 1300' W. OF S.R.315, 40' S. OF THE N. PROP. LINE, 80' N.W. OF A SMALL BLACK BARN. ELEV.=835.35'

M-E CIVIL ENG. BM #222  
 RAILROAD SPIKE SET IN THE S. SIDE OF A 16" TREE, 1700' E. OF THE N.W. PROP. COR ALONG THE N. PROP. LINE. ELEV.=875.70

M-E CIVIL ENG. BM #223  
 RAILROAD SPIKE SET IN THE S.E. SIDE OF TRIPLE 12" TREES, 520' E. OF THE W. PROP. LINE, 330' N. OF THE S. PROP. LINE. ELEV.=987.02'

M-E CIVIL ENG. BM #224  
 RAILROAD SPIKE SET IN THE N. SIDE OF QUADRUPLE 14" TREES, 1400' E. ALONG THE S. PROP LINE FROM THE S.W. PROP. COR. ELEV.=890.25

M-E CIVIL ENG. BM #225  
 RAILROAD SPIKE SET IN THE N. SIDE OF A 18" TREE, 2300' W. OF S.R. 315, 200' N. OF THE S. PROP. LINE. ELEV.=862.74'

M-E CIVIL ENG. BM #226  
 RAILROAD SPIKE SET IN THE N. SIDE OF A 12" TREE, 1000' W. OF S.R. 315, 350' N. OF THE S. PROP. LINE. ELEV.=825.09'

INDEX MAP

SCALE: 1" = 200'

LEGEND

ADT = AVERAGE DAILY TRAFFIC (ACCUMULATIVE)  
 PADT = PROJECTED AVERAGE DAILY TRAFFIC (FROM RUSH HOUR COUNTS)

VARIANCE REQUEST

- A VARIANCE IS BEING REQUESTED FOR NO DETENTION, BASED ON LARGE LOTS AND ONLY 2.5% INCREASE IN FLOW. APPROVED: \_\_\_\_\_
- LENGTH OF CUL-DE-SAC FROM 1500' TO 2000'+ APPROVED: \_\_\_\_\_
- SIDEWALKS ON ONE SIDE ONLY APPROVED: \_\_\_\_\_
- NO IMPROVEMENTS TO 315 APPROVED: \_\_\_\_\_
- REQUEST FOR NON CURBED, 14' WIDE LOOP, ONE-WAY STREET AT WEST END OF DRIVE A. APPROVED: \_\_\_\_\_

CHANGE ORDER SCHEDULE

| CHANGE | PREPARED | DATE OF CHANGE | DESCRIPTION OF CHANGE | SHT NO. | APPROVED | DATE OF APPROVAL |
|--------|----------|----------------|-----------------------|---------|----------|------------------|
|        |          |                |                       |         |          |                  |
|        |          |                |                       |         |          |                  |
|        |          |                |                       |         |          |                  |
|        |          |                |                       |         |          |                  |
|        |          |                |                       |         |          |                  |
|        |          |                |                       |         |          |                  |
|        |          |                |                       |         |          |                  |
|        |          |                |                       |         |          |                  |
|        |          |                |                       |         |          |                  |
|        |          |                |                       |         |          |                  |

UTILITY COMPANIES

GENERAL TELEPHONE COMPANY  
550 LEADER STREET  
MARION, OHIO 43302  
ATTENTION: WILLIAM MUETHER  
(740) 383-0551

AMERICAN ELECTRIC POWER  
61 WEST WILLIAM STREET  
DELAWARE, OHIO 43015  
ATTENTION: ROGER LAWRENCE  
(740) 363-1935

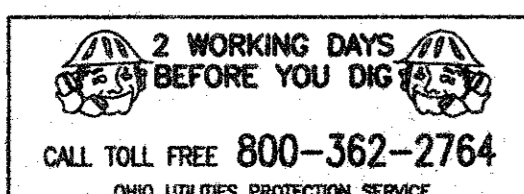
WARNER COMMUNICATIONS  
1266 DUBLIN ROAD  
COLUMBUS, OHIO 43215  
ATTENTION: KEVIN RICH  
(614) 236-1292

DELAWARE COUNTY ENGINEER  
CHRIS BAUSERMAN  
50 CHANNING STREET  
DELAWARE, OHIO 43015  
(740) 833-2400  
(CONTACTING AGENT)

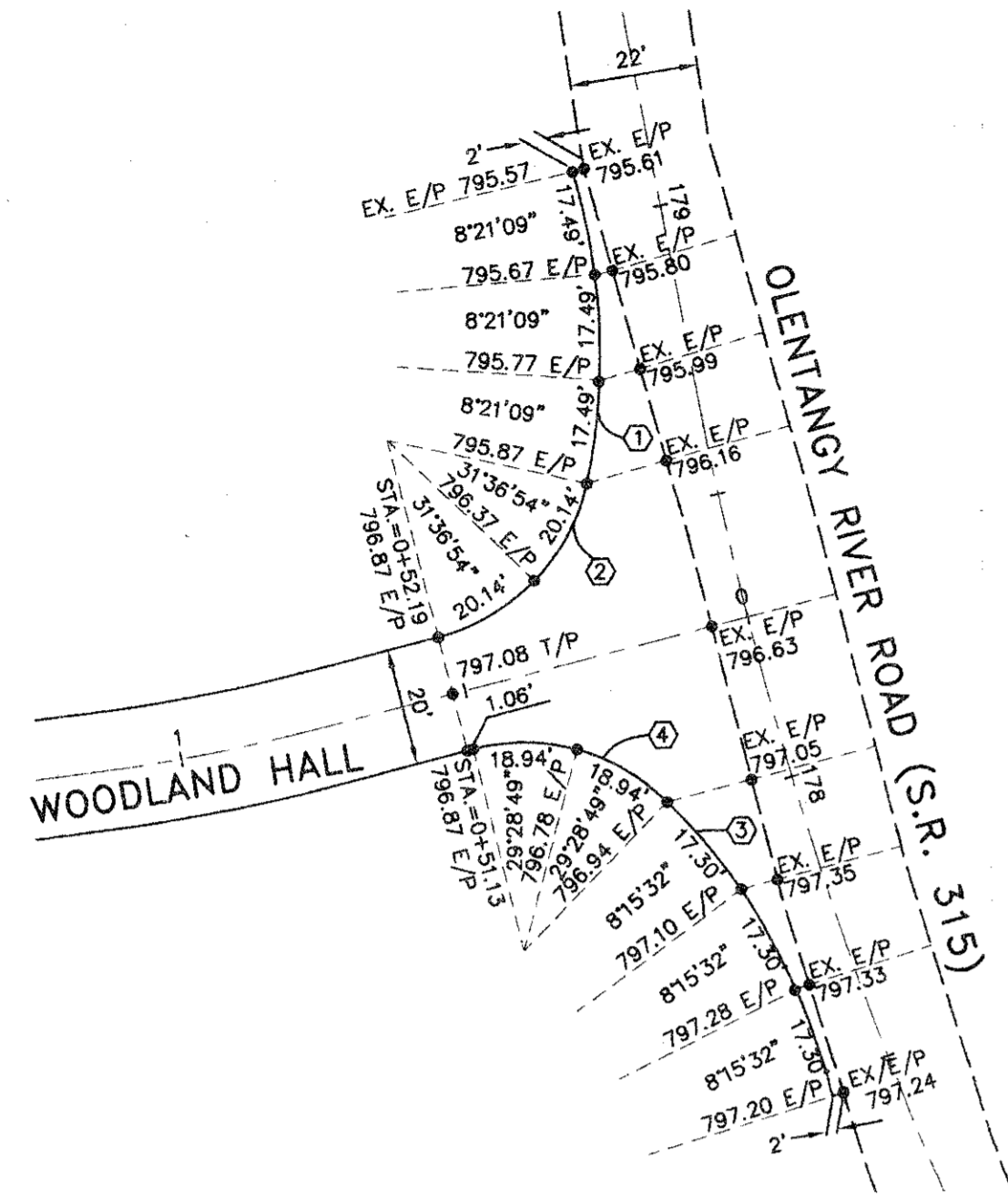
DEL-CO WATER COMPANY, INC.  
6773 OLENTANGY RIVER ROAD  
DELAWARE, OHIO 43015  
ATTENTION: SHANE CLARK, P.E.  
(740) 548-7746

COLUMBIA GAS OF OHIO  
920 W. GOODALE AVE.  
COLUMBUS, OHIO 43215  
ATTENTION: JEFF HUFF  
(740) 365-3422

DELAWARE COUNTY SANITARY ENGINEER  
JACK SMELKER  
50 CHANNING STREET  
DELAWARE, OHIO 43015  
(740) 833-2240

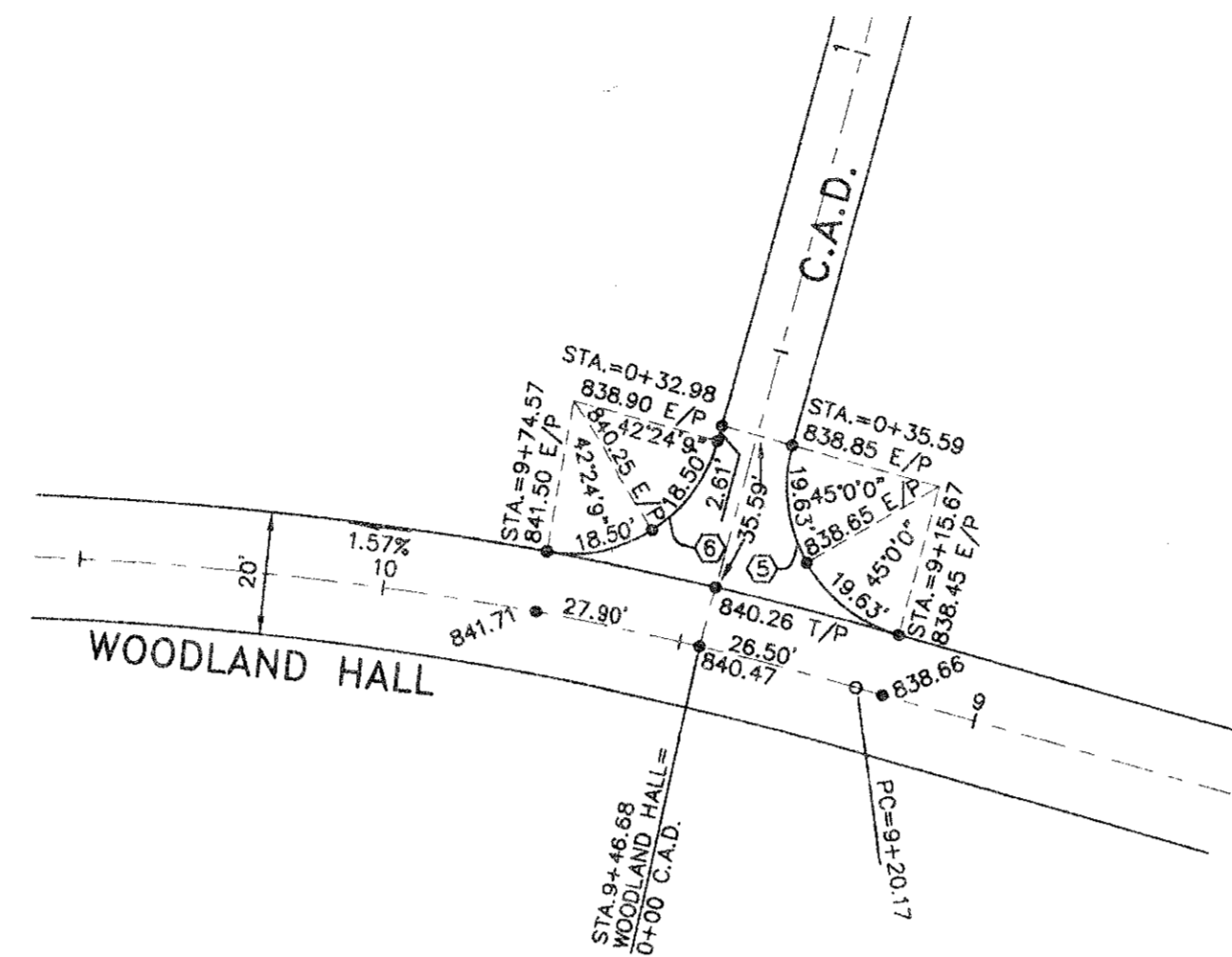


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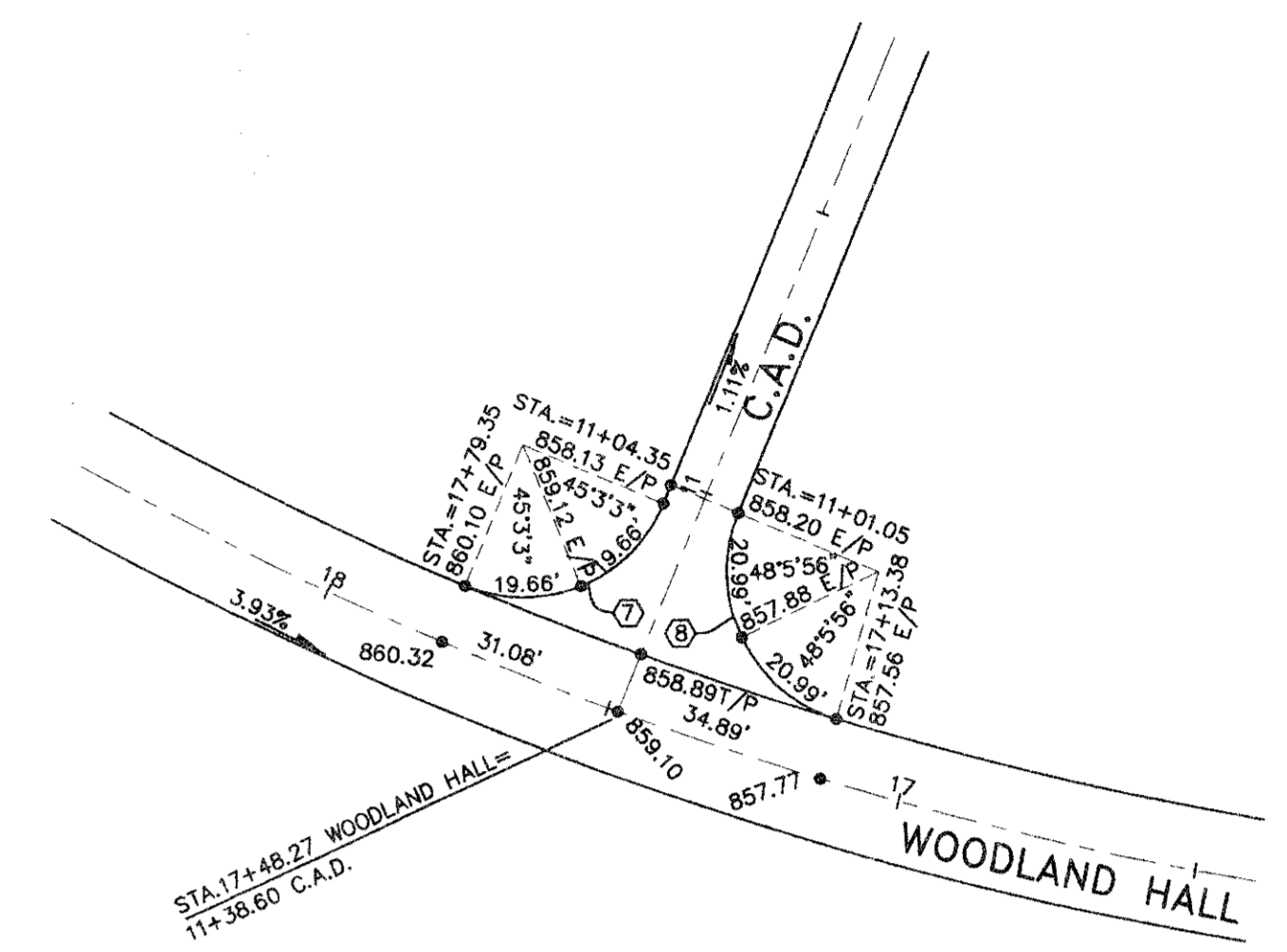
**OLENTANGY RIVER ROAD (315) & WOODLAND HALL INTERSECTION DETAIL**

SCALE 1"=30'



**WOODLAND HALL & CAD STREET EAST INTERSECTION DETAIL**

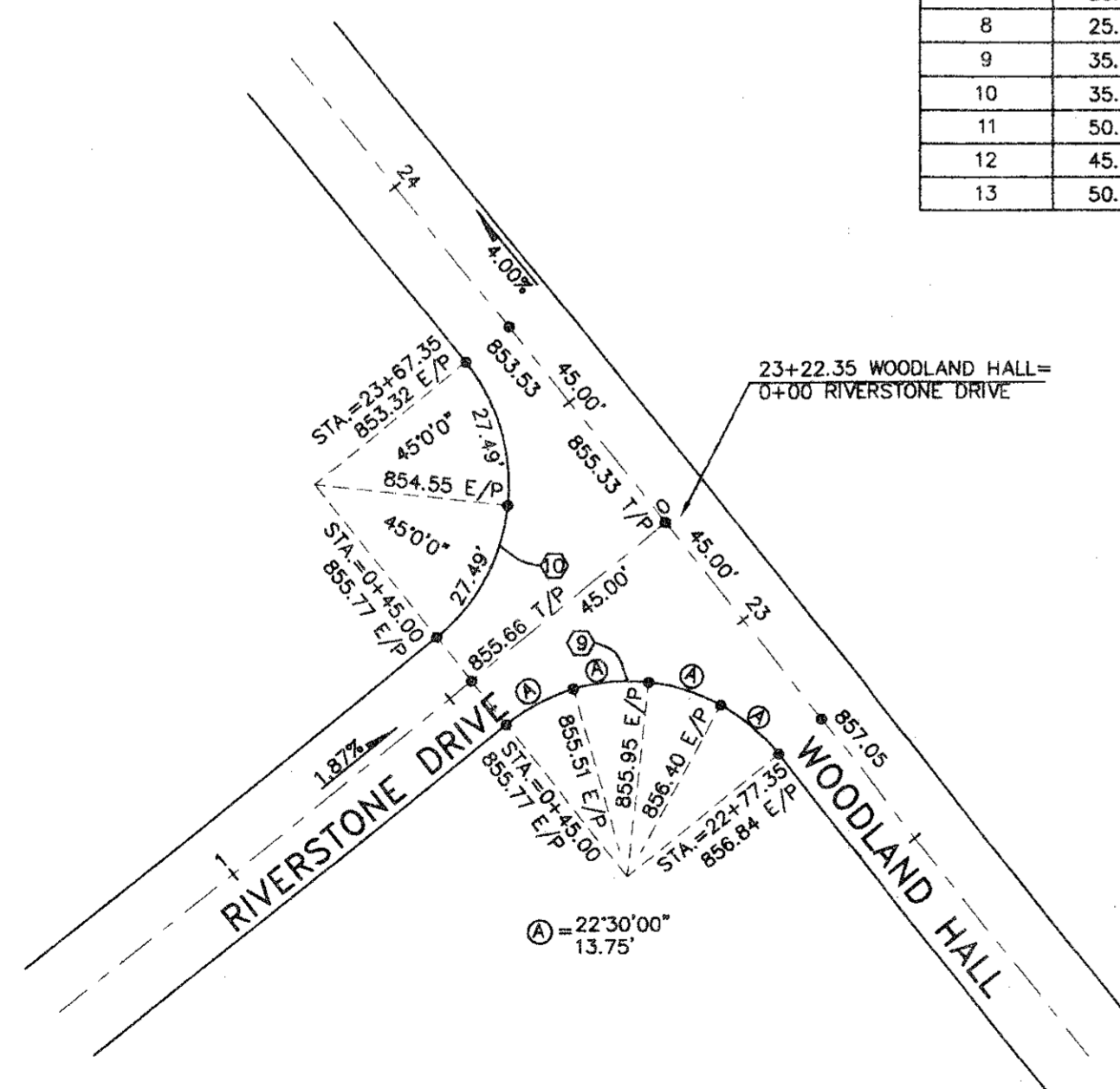
SCALE 1"=30'



**WOODLAND HALL & CAD STREET WEST INTERSECTION DETAIL**

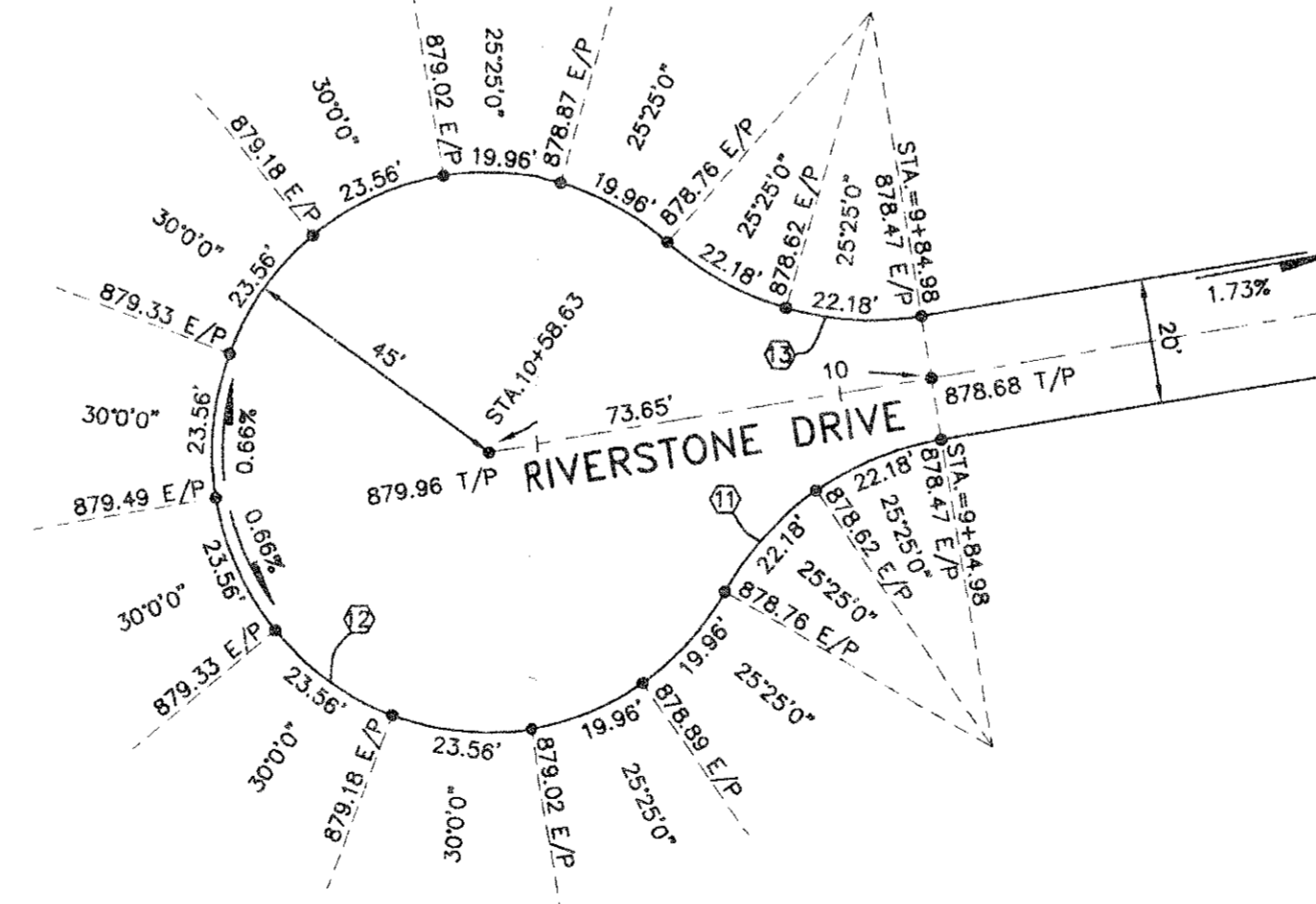
SCALE 1"=30'

| CURVE DATA |         |         |        |            |       |
|------------|---------|---------|--------|------------|-------|
| NO.        | R       | L       | T      | Δ          | DESC. |
| 1          | 120.00' | 52.48'  | 26.67' | 253°52'27" | E/P   |
| 2          | 35.00'  | 40.27'  | 22.91' | 66°43'39"  | E/P   |
| 3          | 120.00' | 51.89'  | 26.36' | 26°46'35"  | E/P   |
| 4          | 35.00'  | 37.88'  | 21.03' | 67°00'14"  | E/P   |
| 5          | 25.00'  | 39.27'  | 25.00' | 90°00'00"  | E/P   |
| 6          | 25.00'  | 37.00'  | 22.83' | 84°49'17"  | E/P   |
| 7          | 25.00'  | 39.31'  | 25.04' | 90°08'05"  | E/P   |
| 8          | 25.00'  | 41.97'  | 27.86' | 96°11'53"  | E/P   |
| 9          | 35.00'  | 54.98'  | 35.00' | 90°00'00"  | E/P   |
| 10         | 35.00'  | 54.98'  | 35.00' | 90°00'00"  | E/P   |
| 11         | 50.00'  | 44.36'  | 23.76' | 50°00'50"  | E/P   |
| 12         | 45.00'  | 221.22' | 36.66' | 281°40'00" | E/P   |
| 13         | 50.00'  | 44.36'  | 23.76' | 50°00'50"  | E/P   |



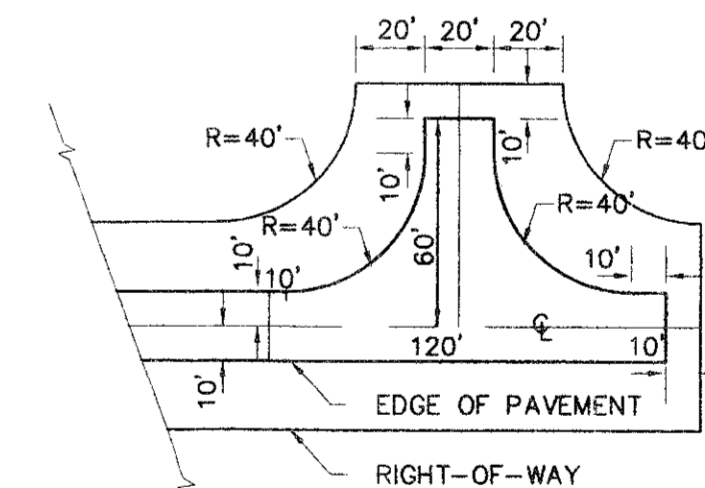
**WOODLAND HALL & RIVERSTONE DRIVE INTERSECTION DETAIL**

SCALE 1"=30'



**RIVERSTONE DRIVE CUL-DE-SAC DETAIL**

SCALE 1"=30'



- NOTES:
1. TEMPORARY "T" TYPE TURN-AROUND SHALL BE REQUIRED AT THE END OF EACH STREET THAT IS TO BE EXTENDED WITHIN SUBSEQUENT PHASES.
  2. TEE TURNAROUND DRAINAGE PATTERNS SHALL BE SIMILAR TO NORMAL ROAD DITCH SECTIONS.

**TEMPORARY "T" TURN-AROUND DETAIL**

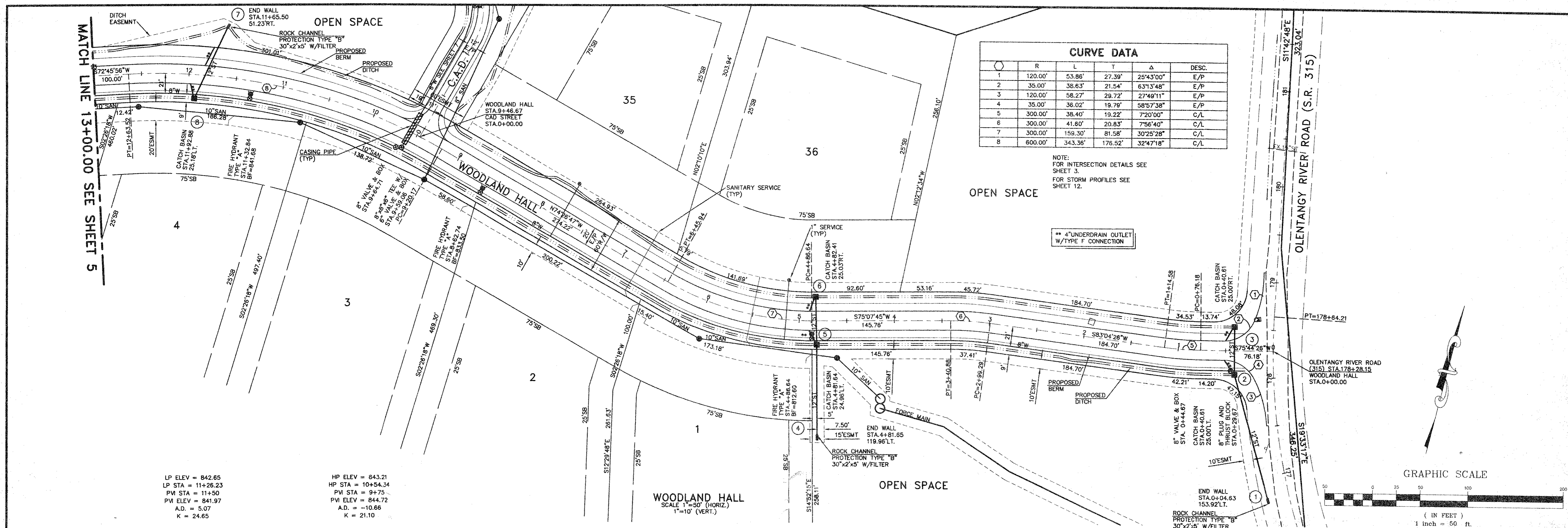
NO SCALE

**DELAWARE, OHIO  
WOODLAND HALL  
SECTION 1  
INTERSECTION DETAILS**

SCALE: HORIZ 1" = 30'



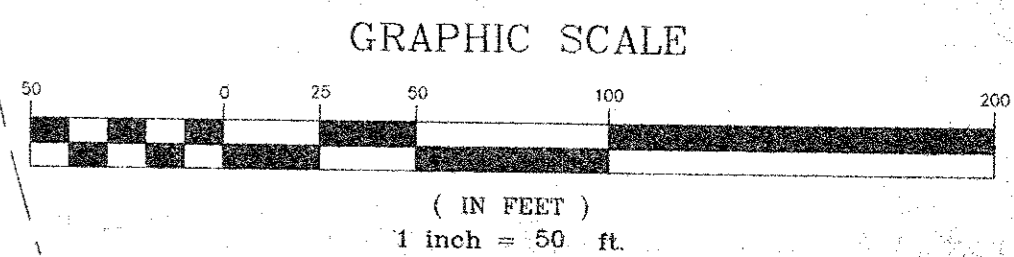
Civil Engineering Group  
635 Brookside Boulevard  
Westerville, OH 43081  
Contact: THOM RIES  
614-818-4900 Ext. 233  
Fax 818-4902



| CURVE DATA |         |         |         |           |       |
|------------|---------|---------|---------|-----------|-------|
|            | R       | L       | T       | Δ         | DESC. |
| 1          | 120.00' | 53.86'  | 27.39'  | 25°43'00" | E/P   |
| 2          | 35.00'  | 38.63'  | 21.54'  | 63°13'48" | E/P   |
| 3          | 120.00' | 58.27'  | 29.72'  | 27°49'11" | E/P   |
| 4          | 35.00'  | 36.02'  | 19.79'  | 58°57'38" | E/P   |
| 5          | 300.00' | 38.40'  | 19.22'  | 7°20'00"  | C/L   |
| 6          | 300.00' | 41.60'  | 20.83'  | 7°56'40"  | C/L   |
| 7          | 300.00' | 159.30' | 81.58'  | 30°25'28" | C/L   |
| 8          | 600.00' | 343.36' | 176.52' | 32°47'18" | C/L   |

NOTE:  
FOR INTERSECTION DETAILS SEE SHEET 3.  
FOR STORM PROFILES SEE SHEET 12.

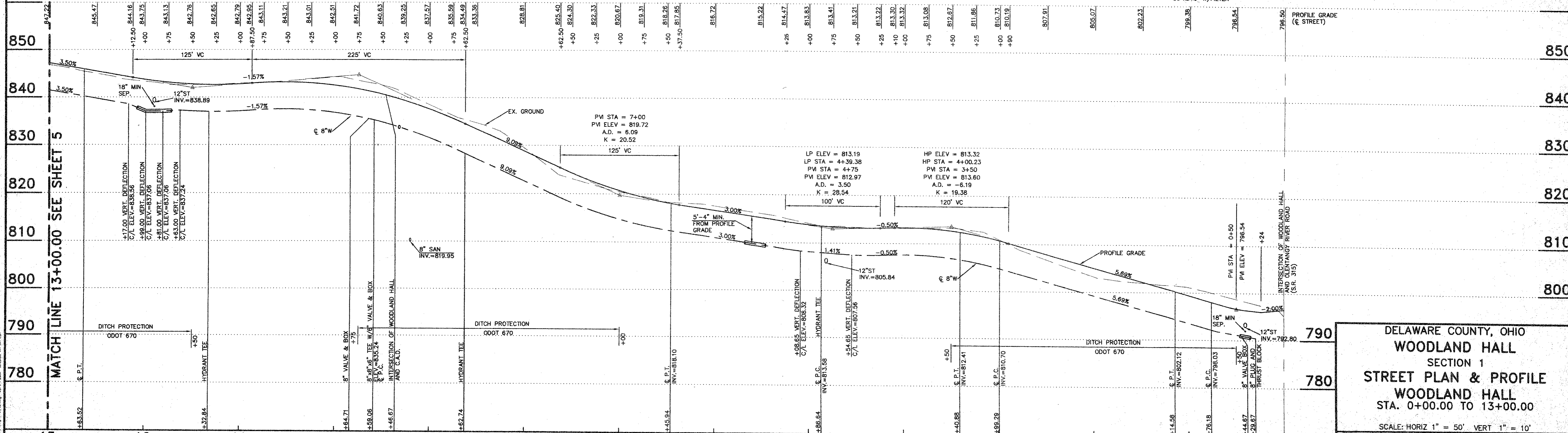
\*\* 4" UNDERDRAIN OUTLET W/TYPE F CONNECTION



LP ELEV = 842.65  
LP STA = 11+28.23  
PV STA = 11+50  
PV ELEV = 841.97  
A.D. = 5.07  
K = 24.65

HP ELEV = 843.21  
HP STA = 10+54.34  
PV STA = 9+75  
PV ELEV = 844.72  
A.D. = -10.66  
K = 21.10

WOODLAND HALL  
SCALE 1"=50' (HORIZ.)  
1"=10' (VERT.)

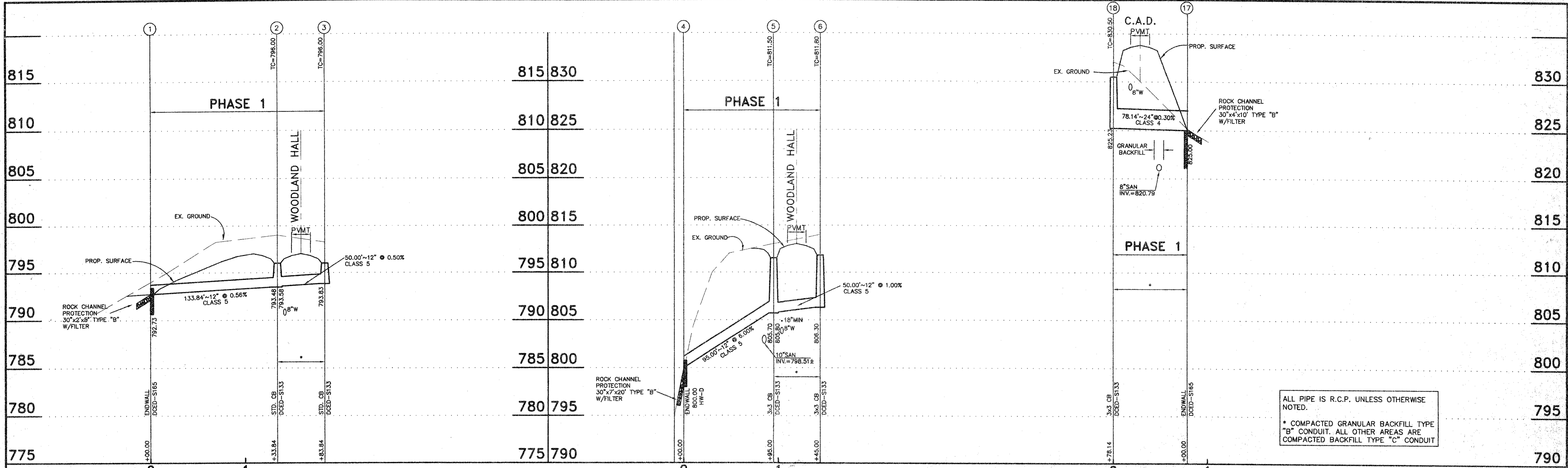


DELAWARE COUNTY, OHIO  
WOODLAND HALL  
SECTION 1  
STREET PLAN & PROFILE  
WOODLAND HALL  
STA. 0+00.00 TO 13+00.00

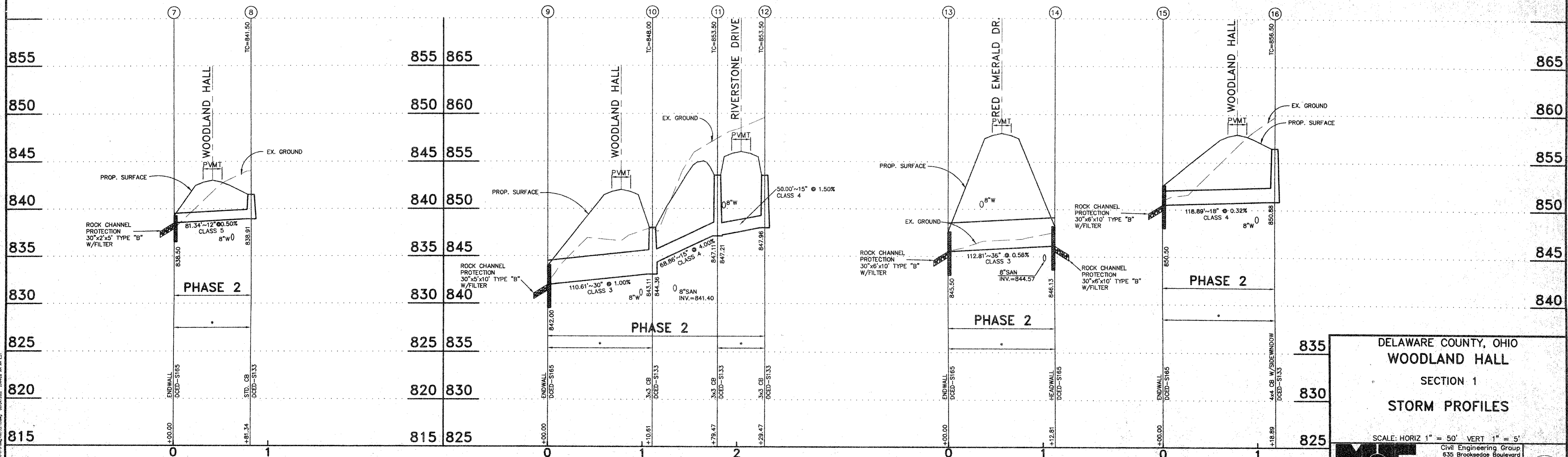
SCALE: HORIZ 1" = 50' VERT 1" = 10'

Civil Engineering Group  
635 Brookledge Boulevard  
Westerville, OH 43081  
Contact: THOM RIES  
814-818-4900 Ext. 233  
Fax 818-4902

4  
26



ALL PIPE IS R.C.P. UNLESS OTHERWISE NOTED.  
 \* COMPACTED GRANULAR BACKFILL TYPE "B" CONDUIT. ALL OTHER AREAS ARE COMPACTED BACKFILL TYPE "C" CONDUIT



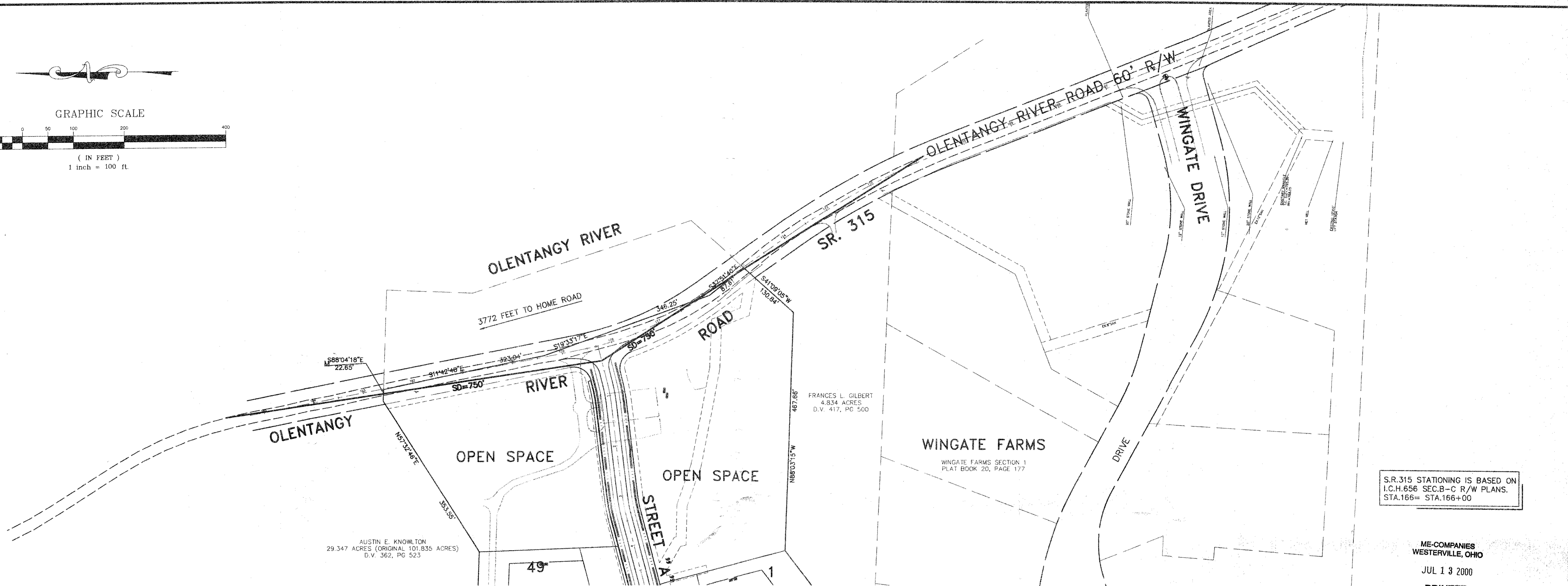
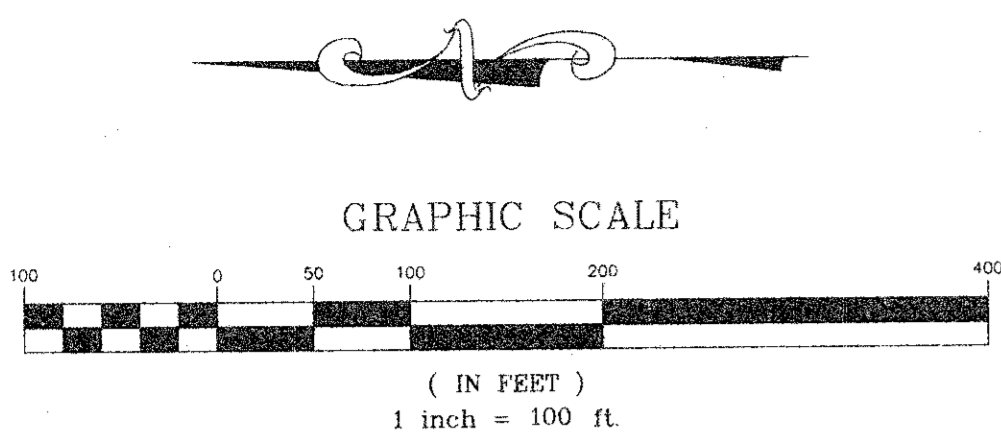
DELAWARE COUNTY, OHIO  
**WOODLAND HALL**  
 SECTION 1  
**STORM PROFILES**

SCALE: HORIZ 1" = 50' VERT 1" = 5'

Civil Engineering Group  
 635 Brookside Boulevard  
 Westerville, OH 43081  
 Contact: THOM RIES  
 614-818-4900 Ext. 233  
 Fax 618-4902

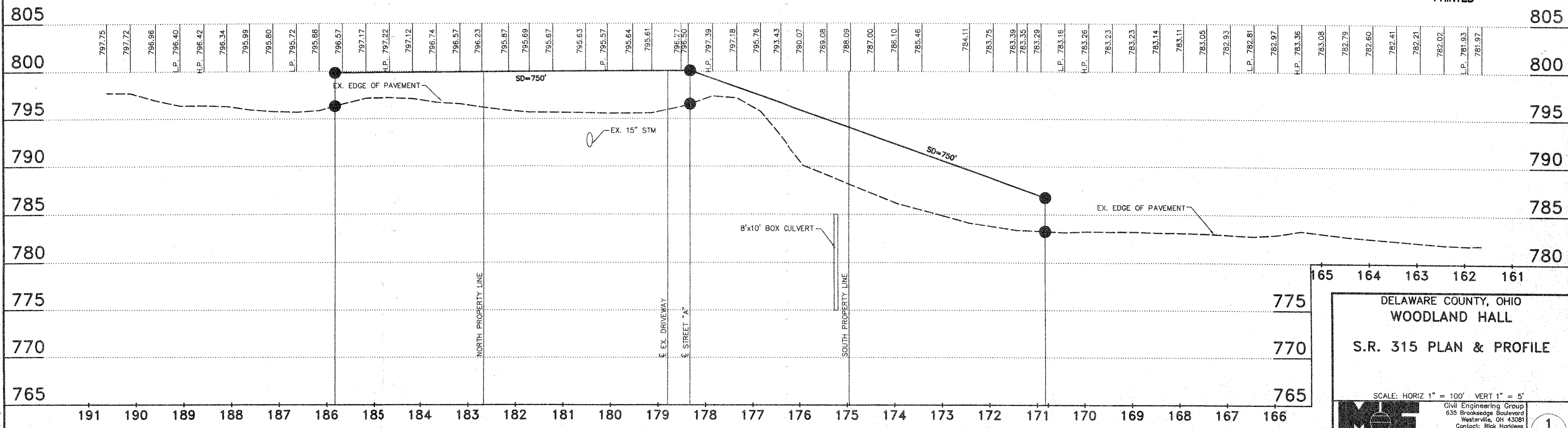
**ME**  
 COMPANIES

12  
 26



S.R.315 STATIONING IS BASED ON I.C.H.656 SEC.B-C R/W PLANS. STA.166= STA.166+00

ME-COMPANIES  
WESTERVILLE, OHIO  
JUL 13 2000  
PRINTED



165 164 163 162 161

DELAWARE COUNTY, OHIO  
WOODLAND HALL  
S.R. 315 PLAN & PROFILE

SCALE: HORIZ 1" = 100' VERT 1" = 5'

**ME**  
COMPANIES

Civil Engineering Group  
635 Brookside Boulevard  
Westerville, OH 43081  
Contact: Rick Harless  
614-816-4300 Ext. 240  
Fax 614-816-4902

1  
1

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