

# STREET IMPROVEMENTS

ALEXANDER ST.

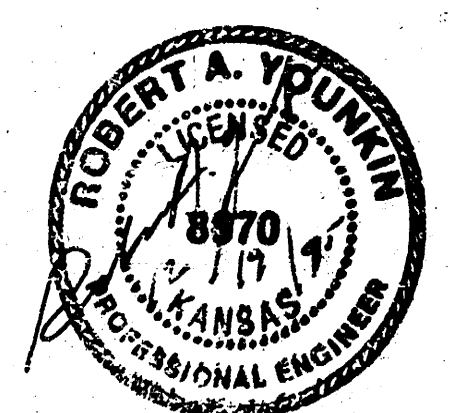
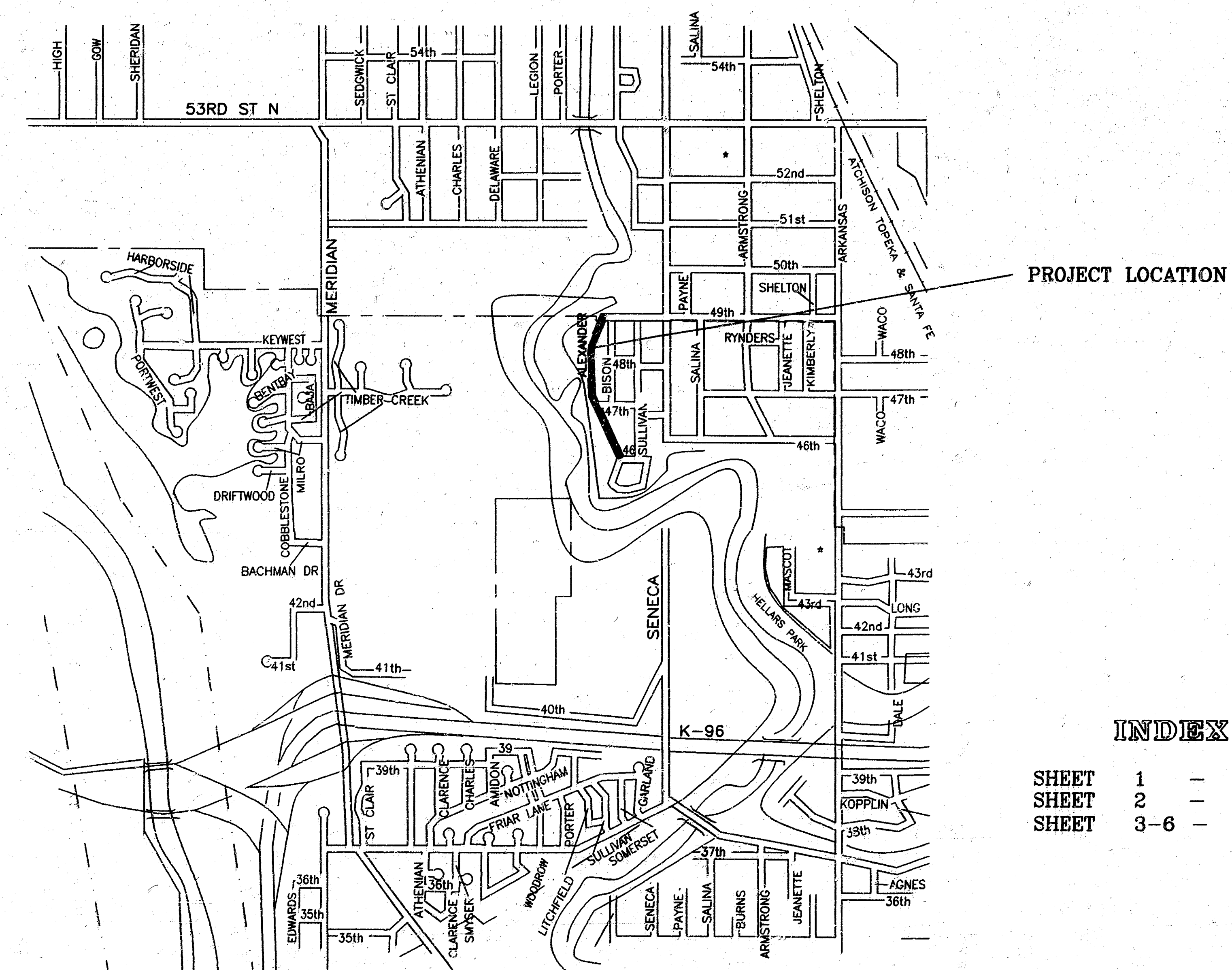
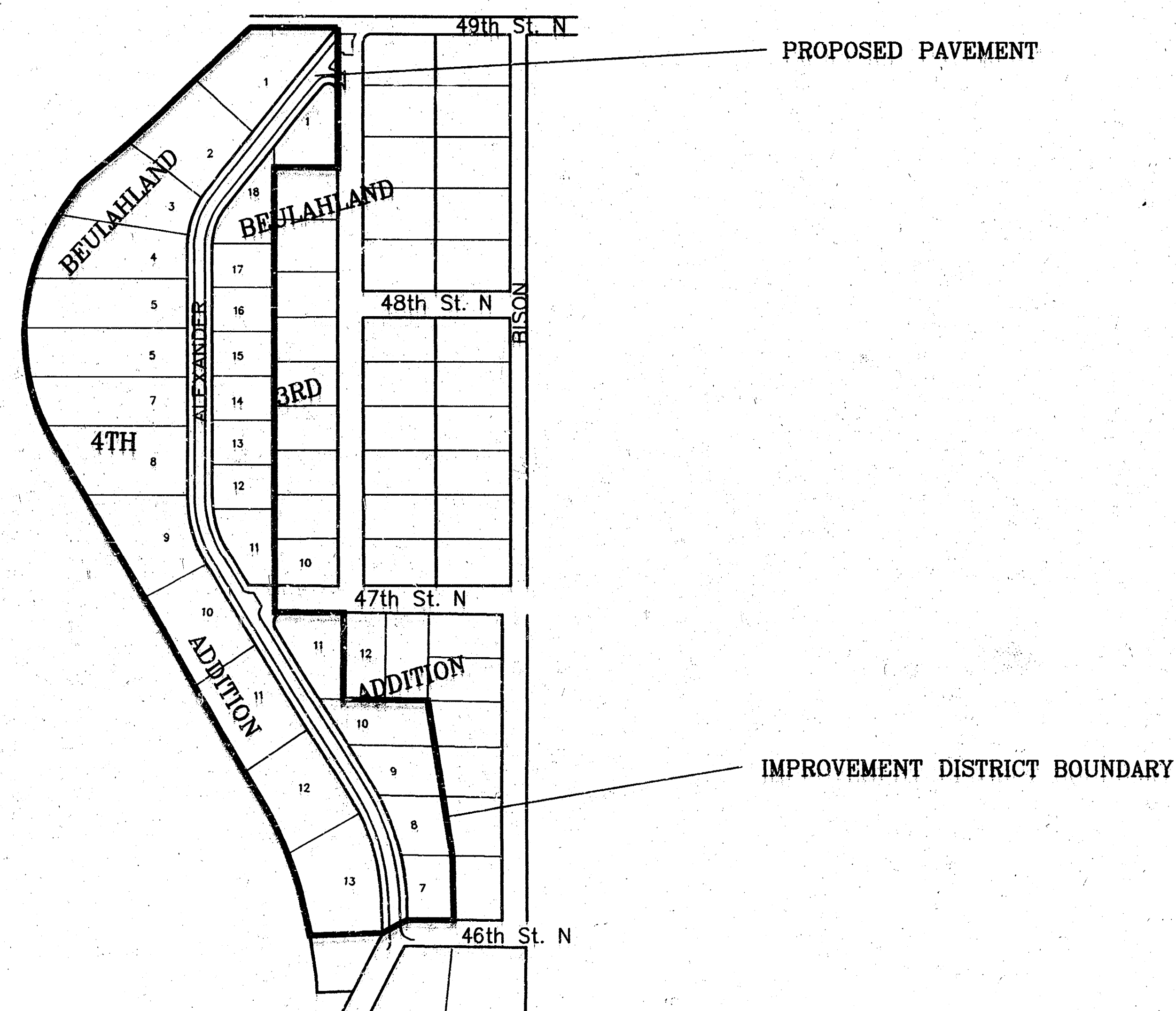
FROM N.L. 46TH ST. NO. TO S.L. 49TH ST. NO.

PROJ. NO. 472-82546

INDEX NO. 762930

CITY OF WICHITA, KANSAS

M. E. LINDEBAK - CITY ENGINEER



## INDEX OF SHEETS

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| C CURVE DATA                                        |              |                   |            |                        |                         |                         |                    |
|-----------------------------------------------------|--------------|-------------------|------------|------------------------|-------------------------|-------------------------|--------------------|
| RADIUS = 470.92'                                    |              | TANGENT = 137.48' |            | EXTERNAL = 19.66'      |                         | DOC = 12'10"00"         |                    |
| CURVE DATA BASED ON C RADIUS $\Delta/2 = 16'16'30"$ |              |                   |            |                        |                         |                         |                    |
| STATION                                             | C ARC LENGTH | EDGE ASPHL LENGTH |            | CHORD LENGTH           |                         | DEFLECTION ANGLE        | Σ TOTAL DEFLECTION |
|                                                     |              | LEFT CURB         | RIGHT CURB | IF OFF LEFT EDGE ASPHL | IF OFF RIGHT EDGE ASPHL |                         |                    |
| 1+40.33                                             | —            | —                 | —          | —                      | —                       | 0-0-0                   | C-0-0              |
| 1+50                                                | 9.67'        | 9.40'             | 9.94'      | 9.24'                  | 10.10'                  | 0-35-18                 | 0-36-18            |
| 1+75                                                | 25.00'       | 24.31'            | 25.61'     | 23.88'                 | 26.11'                  | 1-31-15                 | 2-6-33             |
| 2+00                                                | 25.00'       | 24.31'            | 25.61'     | 23.88'                 | 26.11'                  | 1-31-15                 | 3-37-48            |
| 2+25                                                | 25.00'       | 24.31'            | 25.61'     | 23.88'                 | 26.11'                  | 1-31-15                 | 5-9-3              |
| 2+50                                                | 25.00'       | 24.31'            | 25.61'     | 23.88'                 | 26.11'                  | 1-31-15                 | 6-40-18            |
| 2+75                                                | 25.00'       | 24.31'            | 25.61'     | 23.88'                 | 26.11'                  | 1-31-15                 | 8-11-33            |
| 3+00                                                | 25.00'       | 24.31'            | 25.61'     | 23.88'                 | 26.11'                  | 1-31-15                 | 9-42-48            |
| 3+25                                                | 25.00'       | 24.31'            | 25.61'     | 23.88'                 | 26.11'                  | 1-31-15                 | 11-14-3            |
| 3+50                                                | 25.00'       | 24.31'            | 25.61'     | 23.88'                 | 26.11'                  | 1-31-15                 | 12-45-18           |
| 3+75                                                | 25.00'       | 24.31'            | 25.61'     | 23.88'                 | 26.11'                  | 1-31-15                 | 14-16-33           |
| 4+00                                                | 25.00'       | 24.31'            | 25.61'     | 23.88'                 | 26.11'                  | 1-31-15                 | 15-47-48           |
| 4+07.86                                             | 7.86'        | 7.84'             | 8.08'      | 7.51'                  | 8.21'                   | 0-28-41                 | 16-16-30           |
| TOTAL                                               | 267.53'      | 260.14'           | 274.92'    |                        |                         | Defl./ft. = 6.1157 min. |                    |

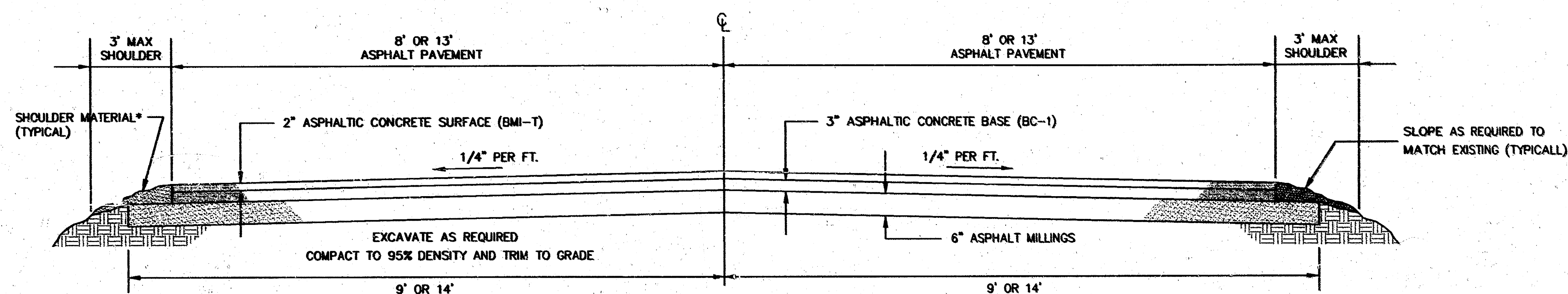
| C CURVE DATA                                        |              |                   |            |                        |                         |                         |                  |
|-----------------------------------------------------|--------------|-------------------|------------|------------------------|-------------------------|-------------------------|------------------|
| RADIUS = 257.73'                                    |              | TANGENT = 75.24'  |            | EXTERNAL = 10.76'      |                         | DOC = 16'18"32"         |                  |
| CURVE DATA BASED ON C RADIUS $\Delta/2 = 16'16"31"$ |              |                   |            |                        |                         |                         |                  |
| STATION                                             | C ARC LENGTH | EDGE ASPHL LENGTH |            | CHORD LENGTH           |                         | DEFLECTION ANGLE        | TOTAL DEFLECTION |
|                                                     |              | LEFT CURB         | RIGHT CURB | IF OFF LEFT EDGE ASPHL | IF OFF RIGHT EDGE ASPHL |                         |                  |
| 10+49.94                                            | —            | —                 | —          | —                      | —                       | 0-0-0                   | 0-0-0            |
| 10+50                                               | .06'         | .06'              | .06'       | .06'                   | .06'                    | 0-0-24                  | 0-0-24           |
| 10+75                                               | 25.00'       | 26.26'            | 23.74'     | 27.04'                 | 22.96'                  | 2-46-44                 | 2-47-8           |
| 11+00                                               | 25.00'       | 26.26'            | 23.74'     | 27.04'                 | 22.96'                  | 2-46-44                 | 5-33-52          |
| 11+25                                               | 25.00'       | 26.26'            | 23.74'     | 27.04'                 | 22.96'                  | 2-46-44                 | 8-20-36          |
| 11+50                                               | 25.00'       | 26.26'            | 23.74'     | 27.04'                 | 22.96'                  | 2-46-44                 | 11-7-20          |
| 11+75                                               | 25.00'       | 26.26'            | 23.74'     | 27.04'                 | 22.96'                  | 2-46-44                 | 13-54-4          |
| 11+96.36                                            | 21.36'       | 22.44'            | 20.28'     | 23.10'                 | 19.82'                  | 2-22-27                 | 16-16-31         |
| TOTAL                                               | 146.42'      | 153.81'           | 139.03'    |                        |                         | Defl./ft. = 6.6693 min. |                  |

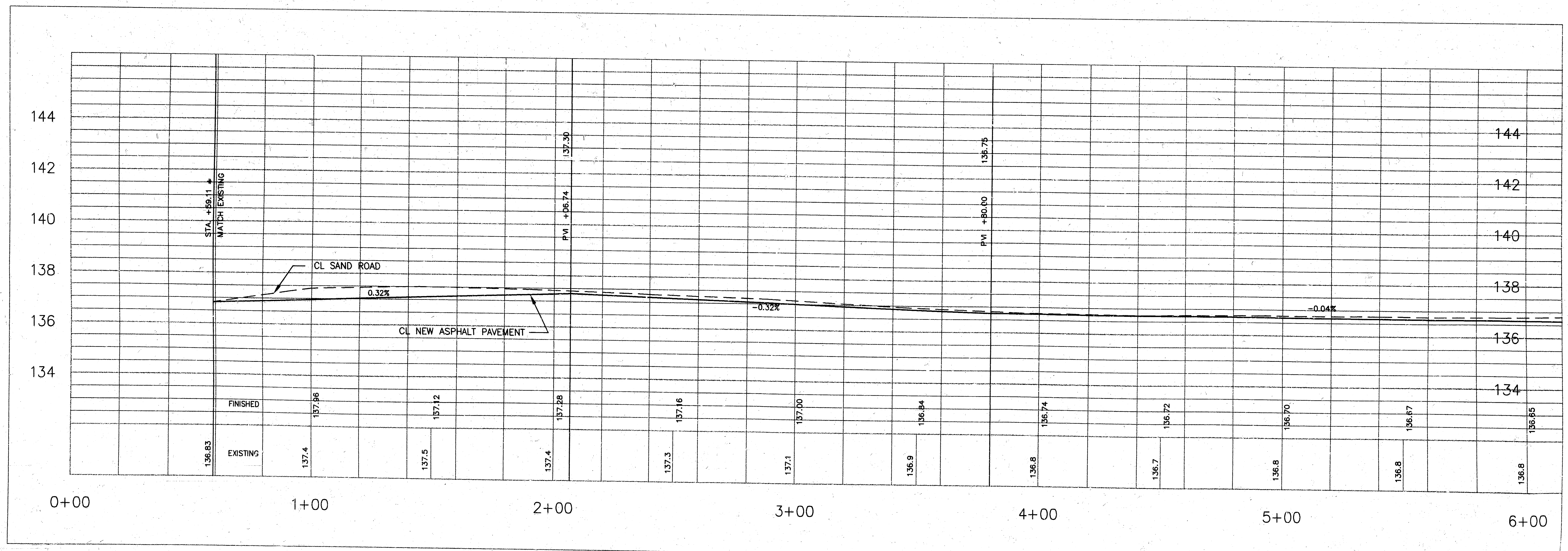
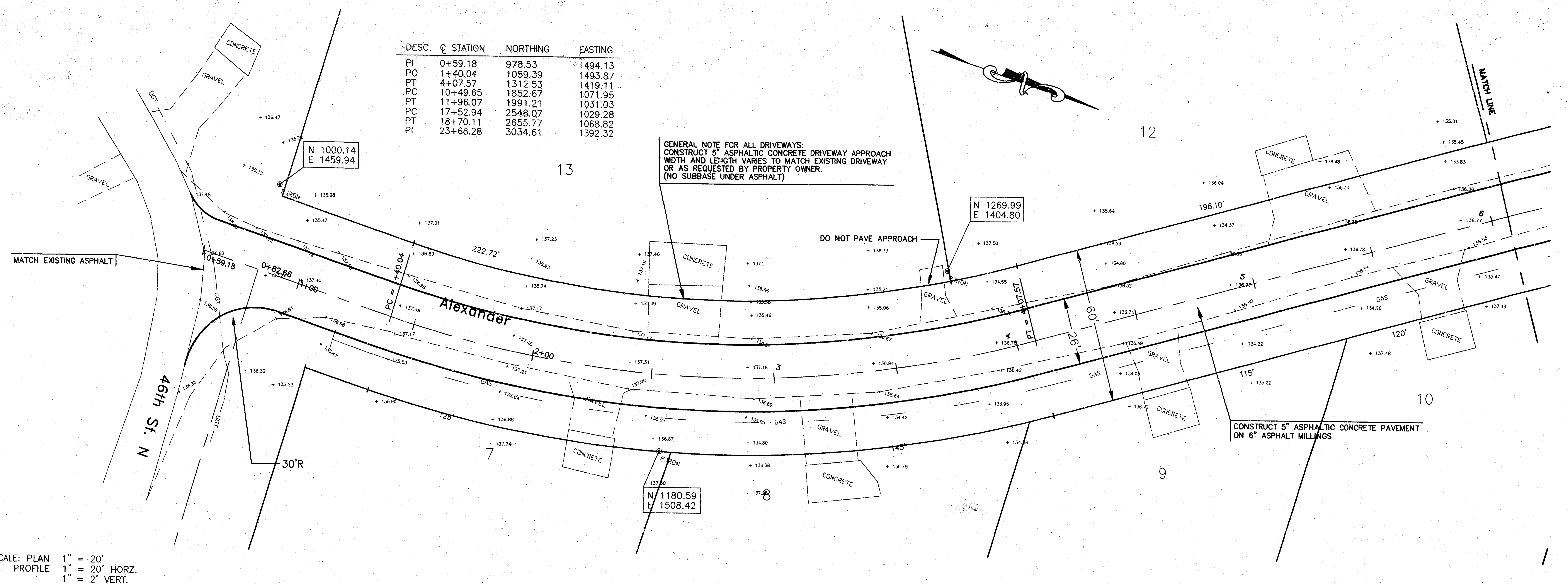
| C CURVE DATA                                       |              |                   |            |                        |                         |                          |                    |
|----------------------------------------------------|--------------|-------------------|------------|------------------------|-------------------------|--------------------------|--------------------|
| RADIUS = 165.05'                                   |              | TANGENT = 66.35'  |            | EXTERNAL = 10.69'      |                         | DOC = 34'42'51"          |                    |
| CURVE DATA BASED ON C RADIUS $\Delta/2 = 20'5'18"$ |              |                   |            |                        |                         |                          |                    |
| C STATION                                          | C ARC LENGTH | EDGE ASPHL LENGTH |            | CHORD LENGTH           |                         | DEFLECTION               | C TOTAL DEFLECTION |
|                                                    |              | LEFT CURB         | RIGHT CURB | IF OFF LEFT EDGE ASPHL | IF OFF RIGHT EDGE ASPHL |                          |                    |
| 17+53.23                                           | —            | —                 | —          | —                      | —                       | 0-0-0                    | 0-0-0              |
| 17+75                                              | 25.00'       | 26.98'            | 23.04'     | 28.19'                 | 21.83'                  | 3-46-47                  | 3-46-47            |
| 18+00                                              | 25.00'       | 26.98'            | 23.04'     | 28.19'                 | 21.83'                  | 4-20-26                  | 8-7-13             |
| 18+25                                              | 25.00'       | 26.98'            | 23.04'     | 28.19'                 | 21.83'                  | 4-20-26                  | 12-27-39           |
| 18+50                                              | 25.00'       | 26.98'            | 23.04'     | 28.19'                 | 21.83'                  | 4-20-26                  | 16-40-46           |
| 18+68.93                                           | 18.93'       | 20.43'            | 17.44'     | 21.35'                 | 16.53'                  | 3-17-12                  | 20-5-18            |
| TOTAL                                              | 115.70'      | 124.85'           | 106.62'    |                        |                         | Defl./ft. = 10.4174 min. |                    |

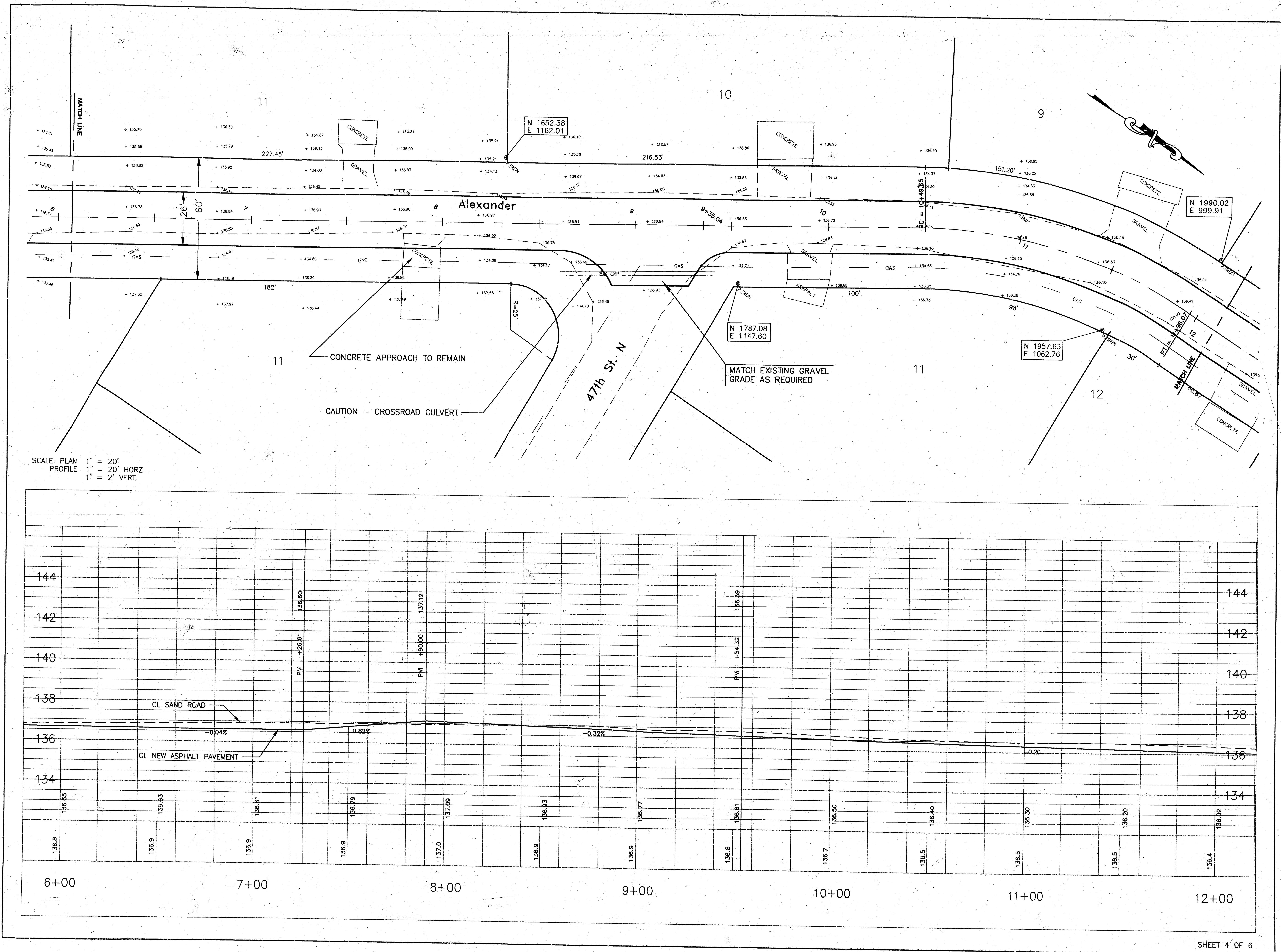
# BENCHMARKS:

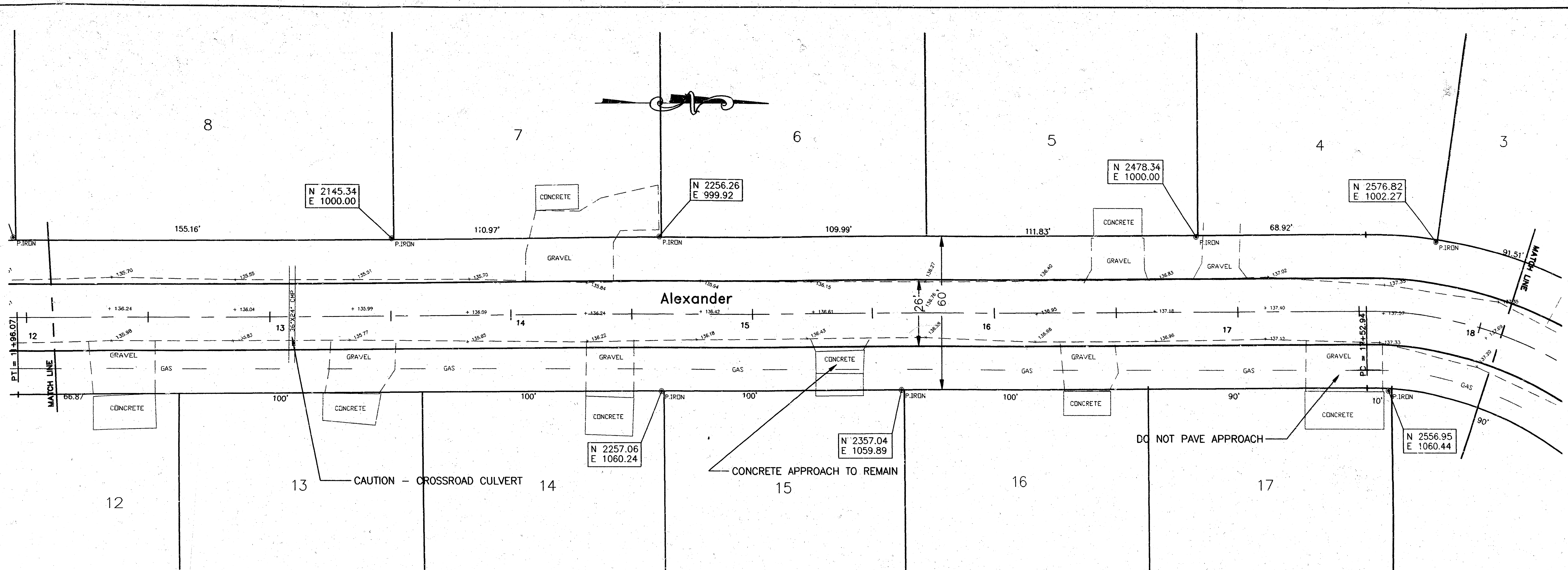
Seneca and 46th St. N  
COW Bench Mark - east side concrete headwall  
south side 46th St. 40' +/- west of Seneca  
57.5' SW of intersection.  
Elev. 136.48

Alexander and 46th St. N  
RR spike - east face of power pole, west side  
of Alexander, south side of 46th St. N.  
Elev. 138.36









SCALE: PLAN 1" = 20'  
 PROFILE 1" = 20' HORZ.  
 1" = 2' VERT.

