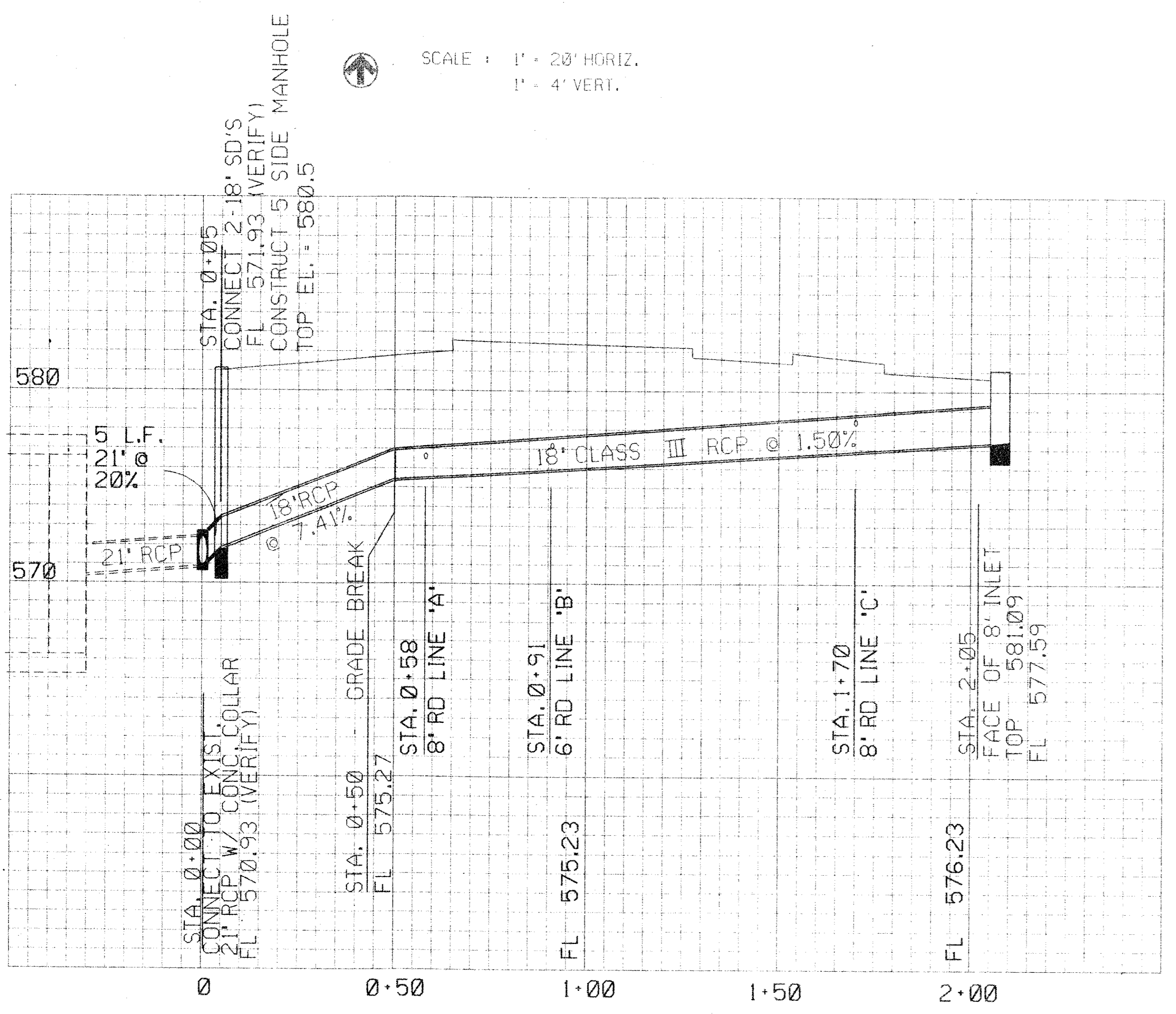
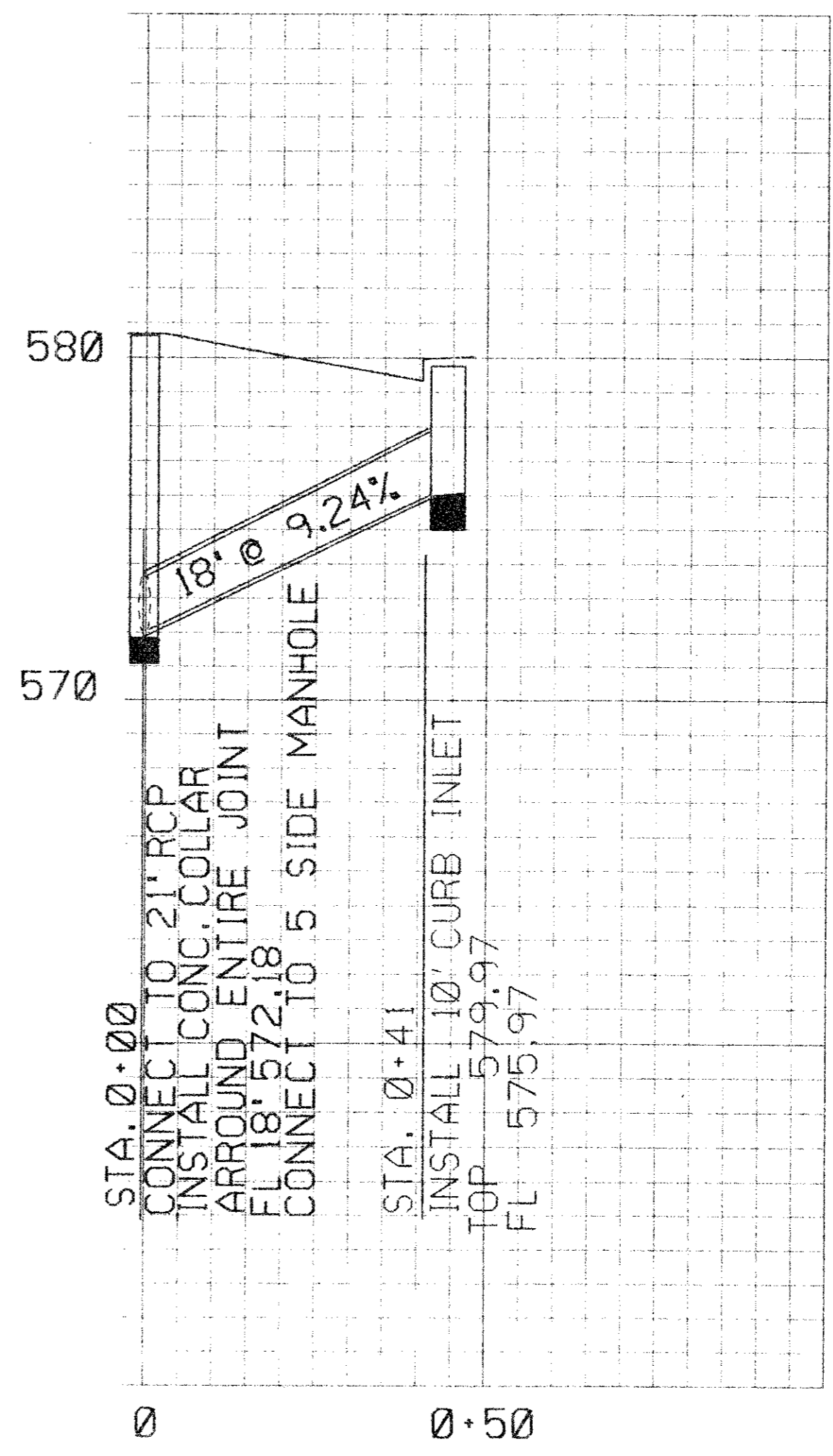


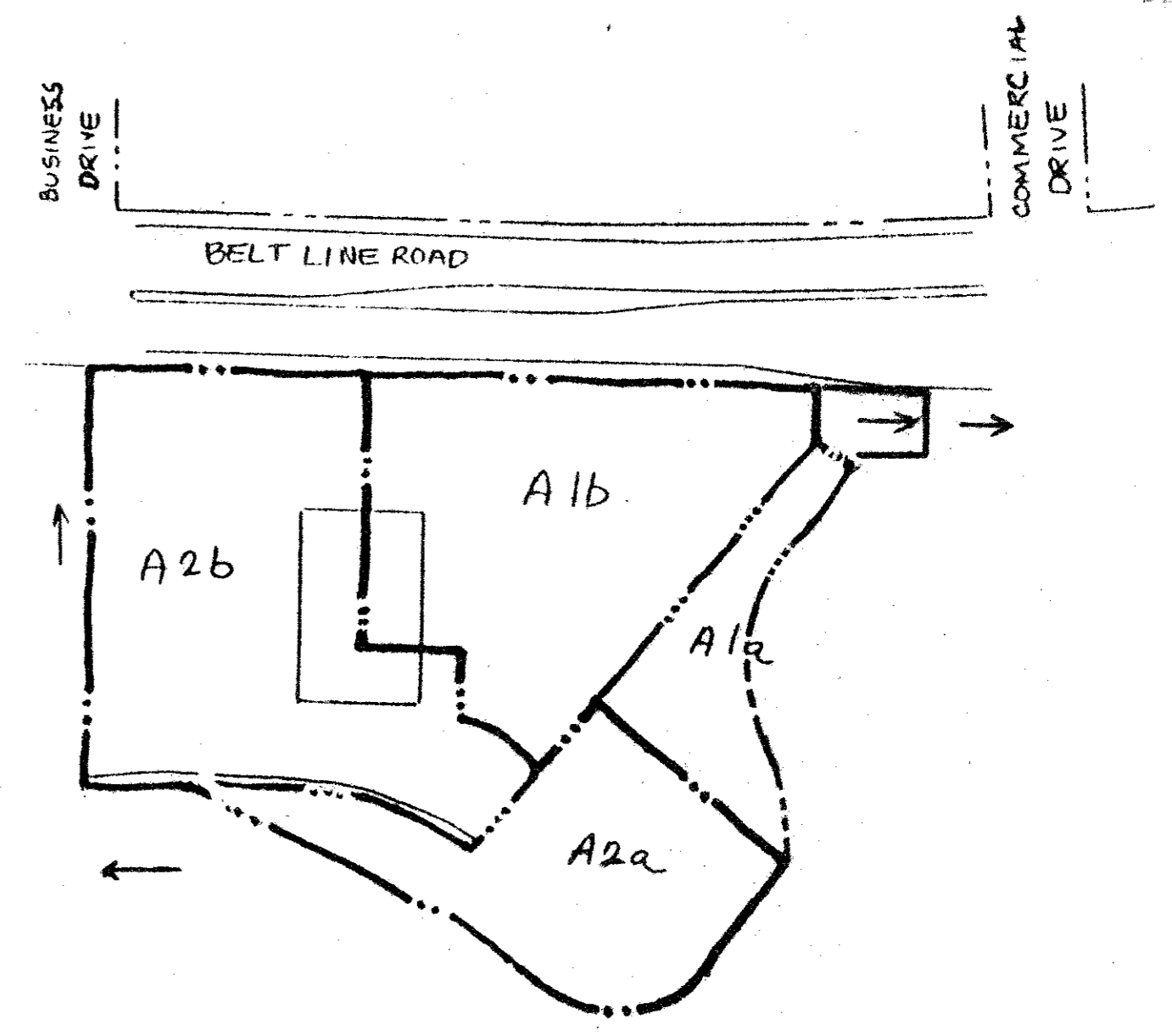
SCALE : 1" = 20' HORIZ.  
1" = 4' VERT.



STORM DRAIN LINE 'A'



STORM DRAIN LINE 'B'



DRAINAGE AREA MAP  
SCALE : 1" = 100'

STORM DRAINAGE COMPUTATIONS  
ULTIMATE CONDITIONS WITH NO OFFSITE CONTRIBUTIONS

| DIST. | DRAINAGE AREA |      |            | 'C' | 'CA' | TOTAL 'CA' | TIME OF CONCRETE |                    |            | DESIGN FREQ. | INTENSITY | 'Q'   | SIZE OF PIPE | FRIC GRAD % |
|-------|---------------|------|------------|-----|------|------------|------------------|--------------------|------------|--------------|-----------|-------|--------------|-------------|
|       | NO.           | AREA | TOTAL AREA |     |      |            | INLET TIME       | FLOW TIME IN SEWER | TOTAL TIME |              |           |       |              |             |
| INLET | A1            | .91  | .91        | .9  | .82  | .82        | 5                |                    | 5          | 100          | 10.49     | 8.6   | 18"          | .7          |
| INLET | A2            | 1.04 | 1.04       | .9  | .94  | .94        | 5                |                    | 5          | 100          | 10.49     | 9.06  | 18"          | .95         |
| PIPE  |               |      | 1.95       | .9  | 1.76 | 1.76       |                  |                    |            | 100          |           | 10.46 | 21"          | 1.40        |

STORM DRAINAGE COMPUTATIONS  
INTERIM CONDITIONS WITH NO OFFSITE CONTRIBUTIONS

| DIST.    | DRAINAGE AREA |      |            | 'C' | 'CA' | TOTAL 'CA' | TIME OF CONCRETE |                    |            | DESIGN FREQ. | INTENSITY | 'Q'   | SIZE OF PIPE | FRIC GRAD % |
|----------|---------------|------|------------|-----|------|------------|------------------|--------------------|------------|--------------|-----------|-------|--------------|-------------|
|          | NO.           | AREA | TOTAL AREA |     |      |            | INLET TIME       | FLOW TIME IN SEWER | TOTAL TIME |              |           |       |              |             |
| OFF SITE | A1A           | .38  | .38        | .5  | .19  | .19        |                  |                    |            |              |           |       |              |             |
| INLET    | A1B           | .91  | 1.29       | .9  | .82  | 1.01       | 10               |                    | 10         | 100          | 8.74      | 8.83  | 18"          | .75         |
| OFF SITE | A2A           | .61  | .61        | .5  | .31  | .31        |                  |                    |            |              |           |       |              |             |
| INLET    | A2B           | 1.04 | 1.65       | .9  | .94  | 1.25       | 10               |                    | 10         | 100          | 8.74      | 10.53 | 18"          | 1.10        |
| PIPE     | COMBINED      |      | 2.94       |     |      | 1.26       |                  |                    |            | 100          |           | 10.76 | 21"          | 1.55        |

NOTE: THIS PLAN CONFORMS TO THE TOWN OF ADDISON DRAINAGE REQUIREMENTS.

NOTE : A SAFETY PLAN IS REQUIRED FOR ALL TRENCHES IN EXCESS OF 5' DEEP SEE SPEC SECTION 02160 FOR REQUIREMENTS.

STATE OF TEXAS  
Professional Engineer  
John W. Brantley  
7-4-92

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CITY ADDISON  
STATE TEXAS

DATE 7/31/92

SHEET A-1D  
OF 20 E SHEETS