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SCALE: 1" = 40'

40' 0' 20' 40' 80'

**LEGEND**

- ROW LINE
- ADJONER LINE
- OVERHEAD ELECTRIC
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- PROPOSED CONTOUR
- EXISTING CONTOUR
- TIME OF CONCENTRATION PATH
- POST-DEVELOPED DRAINAGE AREA DIVIDE
- DA ID (ACRES)
- POST-DEVELOPED FLOW DIRECTION

**TOPOGRAPHIC**  
LOYALTY INNOVATION LEGACY

481 WINSCOTT RD. STE. 200 • BENBROOK, TEXAS 76126  
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TEXAS FIRM REGISTRATION NO. 18409  
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**CORZINE DRIVE STORM DRAIN IMPROVEMENTS  
DALWORTHINGTON GARDENS, TARRANT COUNTY, TX  
DRAINAGE AREA MAP**

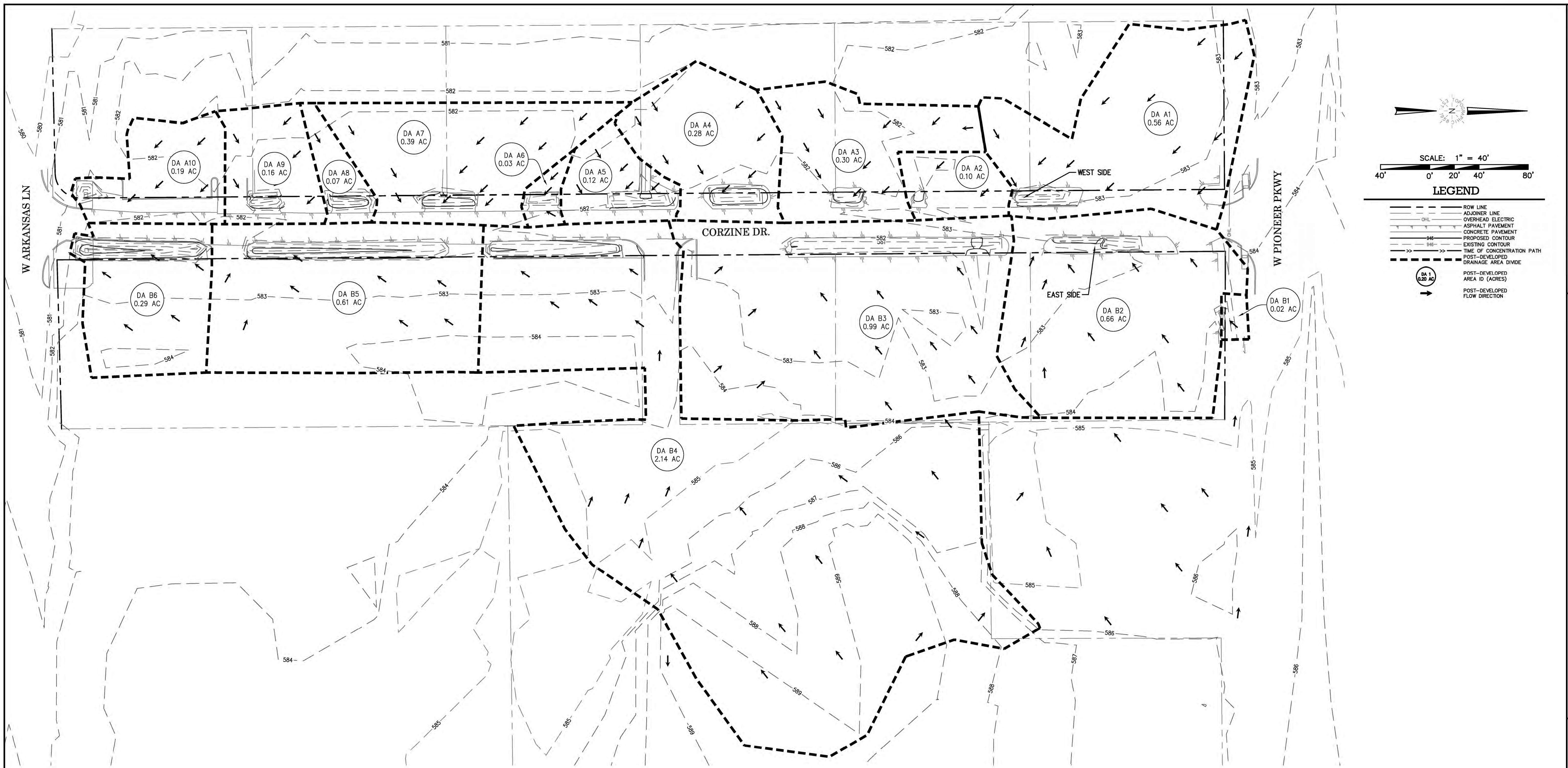
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PLANS PREPARED UNDER THE DIRECT SUPERVISION OF  
KYLON M. WILSON, P.E.  
TEXAS REGISTRATION NO. 77520

SHEET NO.  
**C5.1**





SCALE: 1" = 40'

40' 0' 20' 40' 80'

**LEGEND**

- ROW LINE
- ADJONER LINE
- OVERHEAD ELECTRIC
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- PROPOSED CONTOUR
- EXISTING CONTOUR
- TIME OF CONCENTRATION PATH
- POST-DEVELOPED DRAINAGE AREA DIVIDE
- DA 1 (0.20 AC)
- POST-DEVELOPED AREA ID (ACRES)
- POST-DEVELOPED FLOW DIRECTION

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**CORZINE DRIVE STORM DRAIN IMPROVEMENTS**  
**DALWORTHINGTON GARDENS, TARRANT COUNTY, TX**  
**DRAINAGE CALCULATIONS**

| Area No.           | Area (acres) | Runoff 'C' | Time of Conc. (min) | 1-year Intensity (in/hr) | 1-year Runoff (cfs) | 2-year Intensity (in/hr) | 2-year Runoff (cfs) | 5-year Intensity (in/hr) | 5-year Runoff (cfs) | 10-year Intensity (in/hr) | 10-year Runoff (cfs) | 25-year Intensity (in/hr) | 25-year Runoff (cfs) | 50-year Intensity (in/hr) | 50-year Runoff (cfs) | 100-year Intensity (in/hr) | 100-year Runoff (cfs) |
|--------------------|--------------|------------|---------------------|--------------------------|---------------------|--------------------------|---------------------|--------------------------|---------------------|---------------------------|----------------------|---------------------------|----------------------|---------------------------|----------------------|----------------------------|-----------------------|
| <b>WEST SIDE</b>   |              |            |                     |                          |                     |                          |                     |                          |                     |                           |                      |                           |                      |                           |                      |                            |                       |
| DA A1              | 0.56         | 0.85       | 23.00               | 2.61                     | 1.24                | 3.10                     | 1.47                | 3.96                     | 1.87                | 4.52                      | 2.14                 | 5.32                      | 2.52                 | 5.94                      | 2.82                 | 6.63                       | 3.14                  |
| DA A2              | 0.10         | 0.87       | 13.00               | 3.60                     | 0.31                | 4.20                     | 0.37                | 5.20                     | 0.45                | 5.90                      | 0.51                 | 6.88                      | 0.60                 | 7.66                      | 0.67                 | 8.46                       | 0.74                  |
| DA A3              | 0.30         | 0.89       | 17.00               | 3.05                     | 0.81                | 3.60                     | 0.96                | 4.53                     | 1.20                | 5.15                      | 1.37                 | 6.04                      | 1.60                 | 6.74                      | 1.79                 | 7.48                       | 1.99                  |
| DA A4              | 0.28         | 0.88       | 16.00               | 3.17                     | 0.78                | 3.73                     | 0.92                | 4.67                     | 1.15                | 5.32                      | 1.31                 | 6.22                      | 1.53                 | 6.94                      | 1.71                 | 7.70                       | 1.89                  |
| DA A5              | 0.12         | 0.84       | 12.00               | 3.75                     | 0.38                | 4.37                     | 0.44                | 5.38                     | 0.54                | 6.11                      | 0.61                 | 7.10                      | 0.71                 | 7.91                      | 0.79                 | 8.73                       | 0.87                  |
| DA A6              | 0.03         | 0.76       | 10.00               | 3.99                     | 0.09                | 4.63                     | 0.11                | 5.66                     | 0.13                | 6.42                      | 0.15                 | 7.45                      | 0.17                 | 8.28                      | 0.19                 | 9.12                       | 0.21                  |
| DA A7              | 0.39         | 0.88       | 20.00               | 2.81                     | 0.97                | 3.33                     | 1.15                | 4.22                     | 1.45                | 4.81                      | 1.66                 | 5.65                      | 1.95                 | 6.31                      | 2.17                 | 7.03                       | 2.42                  |
| DA A8              | 0.07         | 0.83       | 13.00               | 3.58                     | 0.21                | 4.19                     | 0.24                | 5.18                     | 0.30                | 5.89                      | 0.34                 | 6.86                      | 0.40                 | 7.64                      | 0.44                 | 8.44                       | 0.49                  |
| DA A9              | 0.16         | 0.82       | 14.00               | 3.42                     | 0.45                | 4.01                     | 0.53                | 4.99                     | 0.65                | 5.67                      | 0.74                 | 6.62                      | 0.87                 | 7.38                      | 0.96                 | 8.16                       | 1.07                  |
| DA A10             | 0.19         | 0.84       | 17.00               | 3.08                     | 0.49                | 3.63                     | 0.58                | 4.56                     | 0.73                | 5.20                      | 0.83                 | 6.09                      | 0.97                 | 6.79                      | 1.08                 | 7.54                       | 1.20                  |
| <b>WEST TOTAL</b>  | <b>2.20</b>  |            |                     |                          | <b>5.72</b>         |                          | <b>6.75</b>         |                          | <b>8.48</b>         |                           | <b>9.66</b>          |                           | <b>11.31</b>         |                           | <b>12.63</b>         |                            | <b>14.02</b>          |
| <b>EAST SIDE</b>   |              |            |                     |                          |                     |                          |                     |                          |                     |                           |                      |                           |                      |                           |                      |                            |                       |
| DA B1              | 0.02         | 0.30       | 27.00               | 2.34                     | 0.01                | 2.80                     | 0.02                | 3.59                     | 0.02                | 4.11                      | 0.02                 | 4.85                      | 0.03                 | 5.43                      | 0.03                 | 6.07                       | 0.04                  |
| DA B2              | 0.66         | 0.81       | 29.00               | 2.25                     | 1.20                | 2.69                     | 1.44                | 3.47                     | 1.85                | 3.97                      | 2.12                 | 4.69                      | 2.51                 | 5.26                      | 2.81                 | 5.88                       | 3.14                  |
| DA B3              | 0.99         | 0.87       | 25.00               | 2.46                     | 2.12                | 2.93                     | 2.53                | 3.75                     | 3.24                | 4.28                      | 3.70                 | 5.05                      | 4.37                 | 5.65                      | 4.89                 | 6.31                       | 5.46                  |
| DA B4              | 2.14         | 0.90       | 35.00               | 2.00                     | 3.85                | 2.40                     | 4.62                | 3.11                     | 6.00                | 3.57                      | 6.88                 | 4.23                      | 8.16                 | 4.75                      | 9.15                 | 5.33                       | 10.26                 |
| DA B5              | 0.61         | 0.86       | 24.00               | 2.55                     | 1.34                | 3.03                     | 1.59                | 3.87                     | 2.03                | 4.41                      | 2.32                 | 5.20                      | 2.74                 | 5.82                      | 3.06                 | 6.49                       | 3.41                  |
| DA B6              | 0.29         | 0.84       | 19.00               | 2.93                     | 0.71                | 3.46                     | 0.84                | 4.37                     | 1.06                | 4.98                      | 1.21                 | 5.84                      | 1.42                 | 6.52                      | 1.58                 | 7.25                       | 1.76                  |
| <b>EAST TOTAL</b>  | <b>4.71</b>  |            |                     |                          | <b>9.24</b>         |                          | <b>11.04</b>        |                          | <b>14.21</b>        |                           | <b>16.26</b>         |                           | <b>19.22</b>         |                           | <b>21.52</b>         |                            | <b>24.07</b>          |
| <b>GRAND TOTAL</b> | <b>6.91</b>  |            |                     |                          | <b>14.96</b>        |                          | <b>17.79</b>        |                          | <b>22.69</b>        |                           | <b>25.92</b>         |                           | <b>30.53</b>         |                           | <b>34.14</b>         |                            | <b>38.09</b>          |

\*DA B1 DRAINS TO CREEK ON EAST SIDE BUT THEN SOME RUNOFF GOES TO WEST CREEK

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SHEET NO.  
**C5.2**



| NO. | DATE | REVISION DESCRIPTION |
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TEXAS REGISTRATION NO. 77520

100-YEAR STORM DRAIN HYDRAULIC CALCULATIONS TABLE

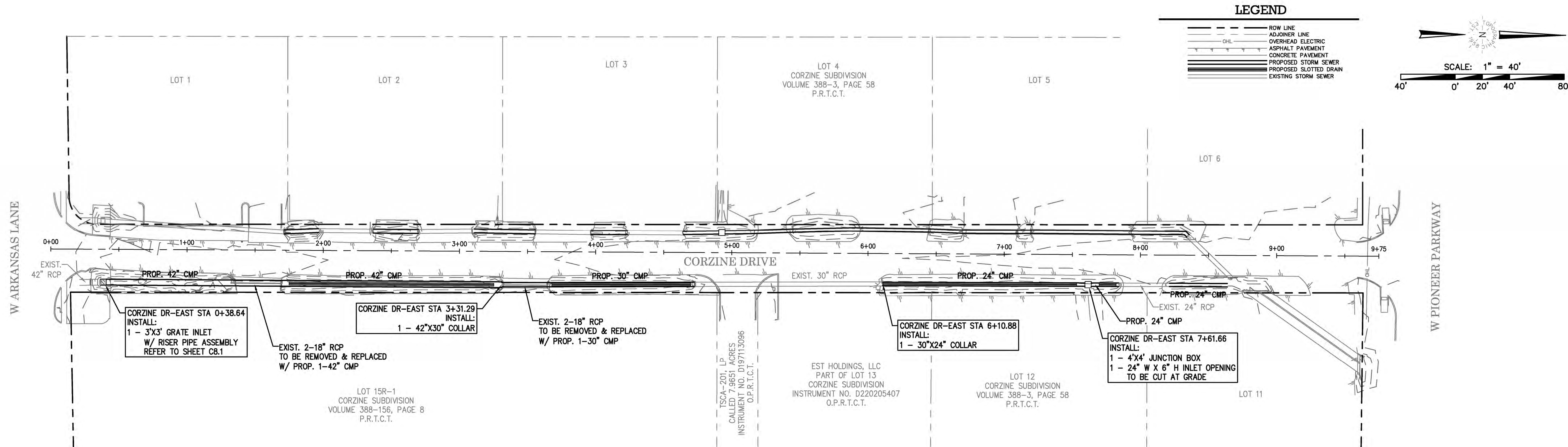
| FROM (DS)   | TO DESIGN (US) | Pipe Length feet | Drainage Area   |      |            | Runoff 'c' | Incr. cA | Total cA | Time of Concentration |             |            |               | 5-yr Intensity in/hr | 100-yr Intensity in/hr | Q5 Runoff cfs | Q100 Runoff cfs | Inlet Bypass cfs | Q Pipe cfs | Pipe Size in. | n      | sf ft/ft | HEAD LOSS CALCULATIONS |                |                 |                         |                         |        |                           |        |        |        | Design HGL Elev. | Invert Elev. |   | T/C ELEV. ft. |
|-------------|----------------|------------------|-----------------|------|------------|------------|----------|----------|-----------------------|-------------|------------|---------------|----------------------|------------------------|---------------|-----------------|------------------|------------|---------------|--------|----------|------------------------|----------------|-----------------|-------------------------|-------------------------|--------|---------------------------|--------|--------|--------|------------------|--------------|---|---------------|
|             |                |                  | Incremental No. | Area | Total Area |            |          |          | Inlet min.            | Travel min. | Total min. | HGL D/S Elev. |                      |                        |               |                 |                  |            |               |        |          | HGL U/S Elev.          | V1 (in) ft/sec | V2 (out) ft/sec | V1 <sup>2</sup> /2g ft. | V2 <sup>2</sup> /2g ft. | Kj ft. | KjV1 <sup>2</sup> /2g ft. | Hk ft. | FROM   | TO     |                  |              |   |               |
|             |                |                  |                 |      |            |            |          |          |                       |             |            |               |                      |                        |               |                 |                  |            |               |        |          |                        |                |                 |                         |                         |        |                           |        | 4      | 5      |                  | 6            | 7 |               |
| A WEST SIDE |                |                  |                 |      |            |            |          |          |                       |             |            |               |                      |                        |               |                 |                  |            |               |        |          |                        |                |                 |                         |                         |        |                           |        |        |        |                  |              |   |               |
| 8+34.86     | 8+67.25        | 32.39            | DA B1, DA B2    | 0.68 | 0.68       | 0.55       | 0.37     | 0.37     | 28.00                 | 0.77        | 28.77      | 3.48          | 5.89                 | 1.30                   | 2.20          | 0.00            | 2.20             | 24"        | 0.022         | 0.0003 | 579.44   | 579.45                 | 0.00           | 0.70            | 0.00                    | 0.01                    | 0.50   | 0.00                      | 0.10   | 579.55 | 579.86 | 579.98           | 582.27       |   |               |
| 7+93.04     | 8+34.86        | 41.82            | DA A1           | 0.56 | 1.24       | 0.85       | 0.47     | 0.85     | 22.78                 | 0.44        | 29.21      | 3.45          | 5.84                 | 2.92                   | 4.96          | 0.00            | 4.96             | 24"        | 0.022         | 0.0014 | 579.28   | 579.34                 | 0.70           | 1.58            | 0.01                    | 0.04                    | 0.35   | 0.00                      | 0.10   | 579.44 | 579.71 | 579.86           | 582.50       |   |               |
| 7+19.73     | 7+93.04        | 73.31            | N/A             | 0.00 | 1.24       | 0.00       | 0.00     | 0.85     | 0.00                  | 0.77        | 29.21      | 3.45          | 5.84                 | 2.92                   | 4.96          | 0.00            | 4.96             | 24"        | 0.022         | 0.0014 | 579.08   | 579.18                 | 1.58           | 1.58            | 0.04                    | 0.04                    | 0.10   | 0.00                      | 0.10   | 579.28 | 579.44 | 579.71           | 581.88       |   |               |
| 7+09.43     | 7+19.73        | 10.30            | DA A2           | 0.10 | 1.34       | 0.87       | 0.09     | 0.94     | 12.87                 | 0.10        | 29.31      | 3.44          | 5.83                 | 3.21                   | 5.45          | 0.00            | 5.45             | 24"        | 0.022         | 0.0017 | 578.96   | 578.98                 | 1.68           | 1.74            | 0.04                    | 0.05                    | 0.00   | 0.00                      | 0.10   | 578.08 | 579.41 | 579.44           | 581.75       |   |               |
| 6+68.97     | 7+09.43        | 40.46            | N/A             | 0.00 | 1.34       | 0.00       | 0.00     | 0.94     | 0.00                  | 0.39        | 29.31      | 3.44          | 5.83                 | 3.21                   | 5.45          | 0.00            | 5.45             | 24"        | 0.022         | 0.0017 | 578.79   | 578.86                 | 1.74           | 1.74            | 0.05                    | 0.05                    | 0.00   | 0.00                      | 0.10   | 578.96 | 579.26 | 579.41           | 581.47       |   |               |
| 6+45.89     | 6+68.97        | 23.08            | N/A             | 0.00 | 1.34       | 0.00       | 0.00     | 0.94     | 0.00                  | 0.22        | 29.31      | 3.44          | 5.83                 | 3.21                   | 5.45          | 0.00            | 5.45             | 24"        | 0.022         | 0.0017 | 578.66   | 578.69                 | 1.74           | 1.74            | 0.05                    | 0.05                    | 0.10   | 0.00                      | 0.10   | 578.79 | 579.18 | 579.26           | 582.18       |   |               |
| 5+88.24     | 6+45.89        | 57.65            | DA A3           | 0.30 | 1.64       | 0.89       | 0.27     | 1.20     | 17.48                 | 0.43        | 29.74      | 3.41          | 5.79                 | 4.09                   | 6.95          | 0.00            | 6.95             | 24"        | 0.022         | 0.0027 | 578.40   | 578.56                 | 2.21           | 2.21            | 0.08                    | 0.08                    | 0.00   | 0.00                      | 0.10   | 578.66 | 578.97 | 579.18           | 582.22       |   |               |
| 5+47.89     | 5+88.24        | 40.35            | N/A             | 0.00 | 1.64       | 0.00       | 0.00     | 1.20     | 0.00                  | 0.30        | 29.74      | 3.41          | 5.79                 | 4.09                   | 6.95          | 0.00            | 6.95             | 24"        | 0.022         | 0.0027 | 578.19   | 578.30                 | 2.21           | 2.21            | 0.08                    | 0.08                    | 0.00   | 0.00                      | 0.10   | 578.40 | 578.83 | 578.97           | 582.45       |   |               |
| 5+13.83     | 5+47.89        | 34.06            | DA A4           | 0.28 | 1.92       | 0.88       | 0.25     | 1.45     | 16.35                 | 0.21        | 29.96      | 3.40          | 5.77                 | 4.91                   | 8.34          | 0.00            | 8.34             | 24"        | 0.022         | 0.0039 | 577.96   | 578.09                 | 2.21           | 2.66            | 0.08                    | 0.11                    | 0.00   | 0.00                      | 0.10   | 578.19 | 578.70 | 578.83           | 581.40       |   |               |
| 4+64.46     | 5+13.83        | 49.37            | N/A             | 0.00 | 1.92       | 0.00       | 0.00     | 1.45     | 0.00                  | 0.48        | 29.96      | 3.40          | 5.77                 | 4.91                   | 8.34          | 0.00            | 8.34             | 30"        | 0.022         | 0.0012 | 577.80   | 577.86                 | 2.66           | 1.70            | 0.11                    | 0.04                    | 0.00   | 0.00                      | 0.10   | 577.96 | 578.03 | 578.70           | 581.21       |   |               |
| 4+23.33     | 4+64.46        | 41.13            | DA A5           | 0.12 | 2.04       | 0.84       | 0.10     | 1.55     | 11.84                 | 0.38        | 30.00      | 3.39          | 5.76                 | 5.25                   | 8.91          | 0.00            | 8.91             | 30"        | 0.022         | 0.0014 | 577.64   | 577.70                 | 1.70           | 1.82            | 0.04                    | 0.05                    | 0.00   | 0.00                      | 0.10   | 577.80 | 578.37 | 578.03           | 581.16       |   |               |
| 3+96.51     | 4+23.33        | 26.82            | DA A6           | 0.03 | 2.07       | 0.76       | 0.02     | 1.57     | 10.41                 | 0.24        | 30.00      | 3.39          | 5.76                 | 5.33                   | 9.05          | 0.00            | 9.05             | 30"        | 0.022         | 0.0014 | 577.51   | 577.54                 | 1.82           | 1.84            | 0.05                    | 0.05                    | 0.00   | 0.00                      | 0.10   | 577.64 | 577.84 | 578.37           | 581.24       |   |               |
| 3+55.53     | 3+96.51        | 40.98            | N/A             | 0.00 | 2.07       | 0.00       | 0.00     | 1.57     | 0.00                  | 0.37        | 30.00      | 3.39          | 5.76                 | 5.33                   | 9.05          | 0.00            | 9.05             | 30"        | 0.022         | 0.0014 | 577.35   | 577.41                 | 1.84           | 1.84            | 0.05                    | 0.05                    | 0.00   | 0.00                      | 0.10   | 577.51 | 577.44 | 577.84           | 581.38       |   |               |
| 3+10.88     | 3+55.53        | 44.65            | N/A             | 0.00 | 2.07       | 0.00       | 0.00     | 1.57     | 0.00                  | 0.40        | 30.00      | 3.39          | 5.76                 | 5.33                   | 9.05          | 0.00            | 9.05             | 30"        | 0.022         | 0.0014 | 577.19   | 577.25                 | 1.84           | 1.84            | 0.05                    | 0.05                    | 0.00   | 0.00                      | 0.10   | 577.35 | 577.12 | 577.44           | 581.45       |   |               |
| 2+69.76     | 3+10.88        | 41.12            | DA A7           | 0.39 | 2.46       | 0.88       | 0.34     | 1.91     | 20.13                 | 0.30        | 30.00      | 3.39          | 5.76                 | 6.49                   | 11.03         | 0.00            | 11.03            | 30"        | 0.022         | 0.0021 | 577.00   | 577.09                 | 1.84           | 2.25            | 0.05                    | 0.08                    | 0.00   | 0.00                      | 0.10   | 577.19 | 577.30 | 577.12           | 581.00       |   |               |
| 2+36.83     | 2+69.76        | 32.93            | DA A8           | 0.07 | 2.53       | 0.83       | 0.06     | 1.97     | 12.97                 | 0.24        | 30.00      | 3.39          | 5.76                 | 6.69                   | 11.37         | 0.00            | 11.37            | 30"        | 0.022         | 0.0022 | 576.83   | 576.90                 | 2.25           | 2.32            | 0.08                    | 0.08                    | 0.00   | 0.00                      | 0.10   | 577.00 | 576.66 | 577.30           | 581.84       |   |               |
| 1+96.52     | 2+36.83        | 40.31            | N/A             | 0.00 | 2.53       | 0.00       | 0.00     | 1.97     | 0.00                  | 0.29        | 30.00      | 3.39          | 5.76                 | 6.69                   | 11.37         | 0.00            | 11.37            | 30"        | 0.022         | 0.0022 | 576.64   | 576.73                 | 2.32           | 2.32            | 0.08                    | 0.08                    | 0.00   | 0.00                      | 0.10   | 576.83 | 576.75 | 576.66           | 581.96       |   |               |
| 1+71.33     | 1+96.52        | 25.19            | DA A9           | 0.16 | 2.69       | 0.82       | 0.13     | 2.10     | 14.15                 | 0.17        | 30.00      | 3.39          | 5.76                 | 7.13                   | 12.12         | 0.00            | 12.12            | 30"        | 0.022         | 0.0025 | 576.48   | 576.54                 | 2.32           | 2.47            | 0.08                    | 0.09                    | 0.00   | 0.00                      | 0.10   | 576.64 | 576.64 | 576.75           | 581.21       |   |               |
| 0+34.35     | 1+71.33        | 136.98           | N/A             | 0.00 | 2.69       | 0.00       | 0.00     | 2.10     | 0.00                  | 0.92        | 30.00      | 3.39          | 5.76                 | 7.13                   | 12.12         | 0.00            | 12.12            | 30"        | 0.022         | 0.0025 | 576.04   | 576.38                 | 2.47           | 2.47            | 0.09                    | 0.09                    | 0.00   | 0.00                      | 0.10   | 576.48 | 572.53 | 576.64           | 582.42       |   |               |
| 0+21.35     | 0+34.35        | 13.00            | DA A10          | 0.19 | 2.88       | 0.84       | 0.16     | 2.26     | 17.19                 | 0.16        | 30.00      | 3.39          | 5.76                 | 7.67                   | 13.04         | 0.00            | 13.04            | 42"        | 0.022         | 0.0005 | 575.93   | 575.94                 | 2.47           | 1.35            | 0.09                    | 0.03                    | 0.02   | 0.10                      | 576.04 | 572.43 | 572.53 | 580.82           |              |   |               |
| B ESAT SIDE |                |                  |                 |      |            |            |          |          |                       |             |            |               |                      |                        |               |                 |                  |            |               |        |          |                        |                |                 |                         |                         |        |                           |        |        |        |                  |              |   |               |
| 7+84.02     | 8+21.45        | 37.43            | DA B1           | 0.02 | 0.02       | 0.30       | 0.01     | 0.01     | 27.14                 | 64.40       | 30.00      | 3.39          | 5.07                 | 0.02                   | 0.03          | 0.00            | 0.03             | 24"        | 0.022         | 0.0000 | 578.18   | 578.18                 | 0.00           | 0.01            | 0.00                    | 0.00                    | 0.50   | 0.00                      | 0.10   | 578.28 | 579.91 | 580.30           | 583.02       |   |               |
| 6+10.88     | 7+84.02        | 173.14           | DA B2           | 0.66 | 0.66       | 0.81       | 0.53     | 0.53     | 28.85                 | 2.80        | 30.00      | 3.39          | 6.07                 | 1.81                   | 3.24          | 0.00            | 3.24             | 24"        | 0.022         | 0.0006 | 577.98   | 578.08                 | 0.00           | 1.03            | 0.00                    | 0.02                    | 0.50   | 0.00                      | 0.10   | 578.18 | 579.52 | 579.91           | 582.23       |   |               |
| 4+72.43     | 6+10.88        | 138.45           | DA B3           | 0.99 | 1.65       | 0.87       | 0.87     | 1.40     | 25.19                 | 1.38        | 30.00      | 3.39          | 5.88                 | 4.75                   | 8.23          | 0.00            | 8.23             | 30"        | 0.022         | 0.0012 | 577.72   | 577.88                 | 1.03           | 1.68            | 0.02                    | 0.04                    | 0.10   | 0.00                      | 0.10   | 577.98 | 578.56 | 579.52           | 582.78       |   |               |
| 3+31.29     | 4+72.43        | 141.14           | N/A             | 0.00 | 1.65       | 0.00       | 0.00     | 1.40     | 0.00                  | 1.31        | 30.00      | 3.39          | 6.31                 | 4.75                   | 8.82          | 0.00            | 8.82             | 30"        | 0.022         | 0.0013 | 577.44   | 577.62                 | 1.68           | 1.80            | 0.04                    | 0.05                    | 0.00   | 0.00                      | 0.10   | 577.72 | 575.74 | 578.56           | 581.64       |   |               |
| 1+75.00     | 3+31.29        | 156.29           | DA B4           | 2.14 | 3.79       | 0.90       | 1.93     | 3.33     | 34.67                 | 0.72        | 30.00      | 3.39          | 5.33                 | 11.28                  | 17.71         | 0.00            | 17.71            | 30"        | 0.022         | 0.0053 | 576.41   | 577.25                 | 1.80           | 3.61            | 0.05                    | 0.20                    | 0.23   | 0.01                      | 0.19   | 577.44 | 574.05 | 575.74           | 581.49       |   |               |
| 0+34.35     | 1+75.00        | 140.65           | DA B5           | 0.61 | 4.40       | 0.86       | 0.53     | 3.85     | 23.78                 | 0.90        | 30.00      | 3.39          | 6.49                 | 13.07                  | 24.99         | 0.00            | 24.99            | 42"        | 0.022         | 0.0018 | 576.06   | 576.31                 | 1.80           | 2.60            | 0.20                    | 0.10                    | 0.00   | 0.00                      | 0.10   | 576.41 | 572.53 | 574.05           | 581.92       |   |               |
| 0+21.35     | 0+34.35        | 13.00            | DA B6           | 0.29 | 4.69       | 0.84       | 0.24     | 4.09     | 18.79                 | 0.07        | 30.00      | 3.39          | 7.25                 | 13.89                  | 29.67         | 0.00            | 29.67            | 42"        | 0.022         | 0.0025 | 575.93   | 575.96                 | 2.60           | 3.08            | 0.10                    | 0.15                    | 0.00   | 0.00                      | 0.10   | 576.06 | 572.43 | 572.53           | 581.96       |   |               |

SLOTTED DRAIN CALCULATIONS

West Side

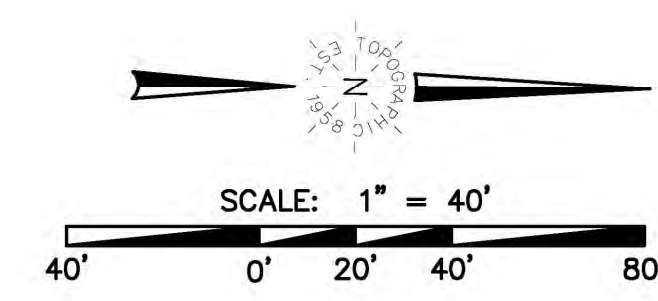
| INLET ID. | TOTAL FLOW INTO INLET Q (cfs) | LONGITUDINAL GUTTER SLOPE S (ft/ft) | TRANSVERSE SLOPE Sx (ft/ft) | MANNING'S ROUGHNESS COEFFICIENT n | TRANSVERSE SLOPE RECIPROCAL Z (ft/ft) | SLOT LENGTH REQUIRED FOR TOTAL INTERCEPTION Lr (ft) | SELECTED LENGTH OF SLOT Ls (ft) | Ls/Lr | TOTAL GUTTER FLOW AT INLET Qi (cfs) | INTERCEPTED FLOW AT INLET Qj (cfs) | BYPASS FLOW Qb (cfs) | EFFICIENCY Qi/Qj |
|-----------|-------------------------------|-------------------------------------|-----------------------------|-----------------------------------|---------------------------------------|---|---------------------------------|-------|-------------------------------------|------------------------------------|----------------------|------------------|
| DA A1     | 3.14                          | 0.00                                | 0.00                        | 0.01                              | 208.33                                | 56.39   | 34.71                           | 0.62  | 3.14                                | 2.58                               | 0.56                 | 0.82             |
| DA A2     | 0.74                          | 0.00                                | 0.04                        | 0.01                              | 26.60                                 | 9.25  | 10.00                           | 1.08  | 0.74                                | 0.74                               | 0.00                 | 1.00             |
| DA A3     | 1.99                          | 0.00                                | 0.01                        | 0.01                              | 140.85                                | 17.03   | 14.81                           | 0.87  | 1.99                                | 1.94                               | 0.05                 | 0.97             |
| DA A4     | 1.89                          | 0.00                                | 0.07                        | 0.01                              | 14.29                                 | 8.64  | 34.43                           | 3.98  | 1.89                                | 1.89                               | 0.00                 | 1.00             |
| DA A5     | 0.87                          | 0.00                                |                             |                                   |                                       |   |                                 |       |                                     |                                    |                      |                  |



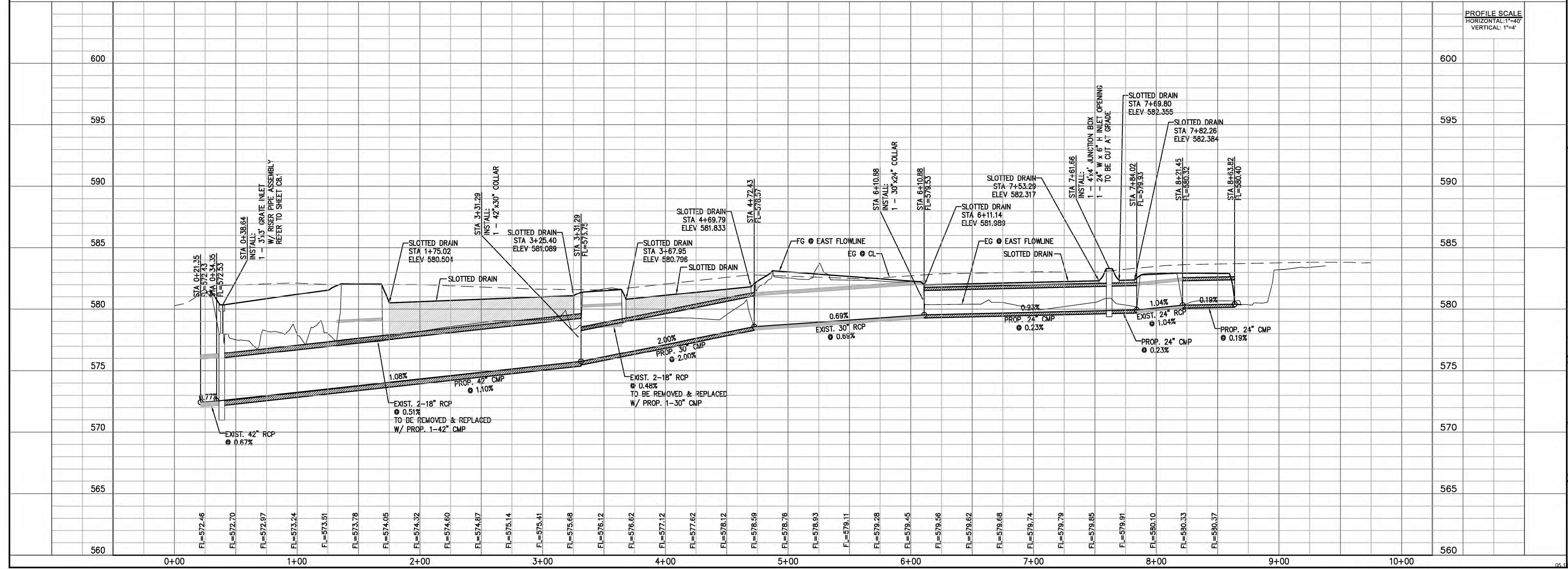


**LEGEND**

- ROW LINE
- ADJOINER LINE
- OVERHEAD ELECTRIC
- ASPHALT PAVEMENT
- CONCRETE PAVEMENT
- PROPOSED STORM SEWER
- PROPOSED SLOTTED DRAIN
- EXISTING STORM SEWER



**CORZINE DRIVE - EAST**



PROFILE SCALE  
HORIZONTAL: 1"=40'  
VERTICAL: 1"=4'

**CORZINE DRIVE STORM DRAIN IMPROVEMENTS**  
DALWORTHINGTON GARDENS, TARRANT COUNTY, TX

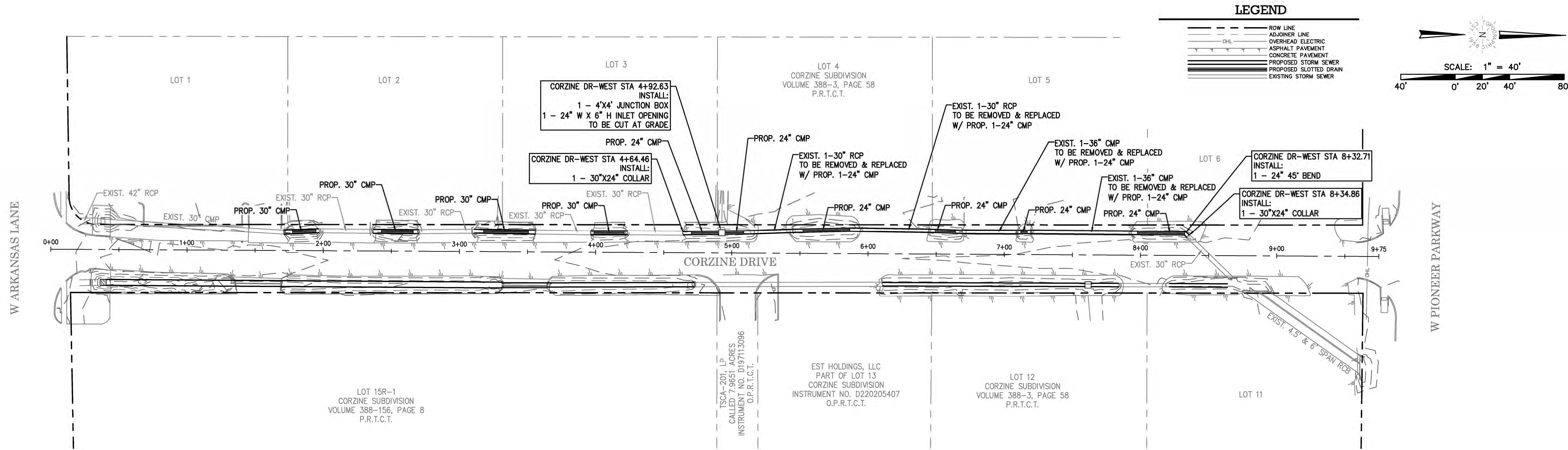
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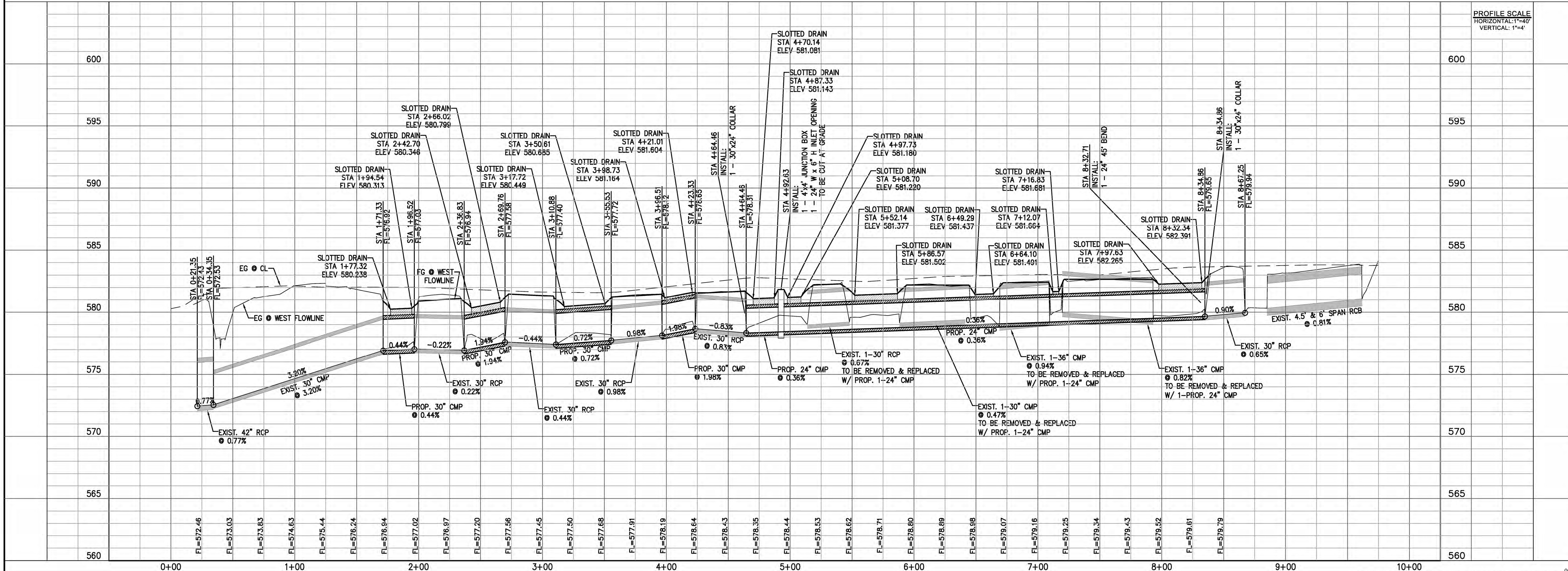
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SHEET NO.  
**C6.1**





### CORZINE DRIVE - WEST



**CORZINE DRIVE STORM DRAIN IMPROVEMENTS**  
**DALWORTHINGTON GARDENS, TARRANT COUNTY, TX**  
**STORM PLAN AND PROFILE**

| NO. | DATE | REVISION DESCRIPTION |
|-----|------|----------------------|
|     |      |                      |
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SHEET NO.

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