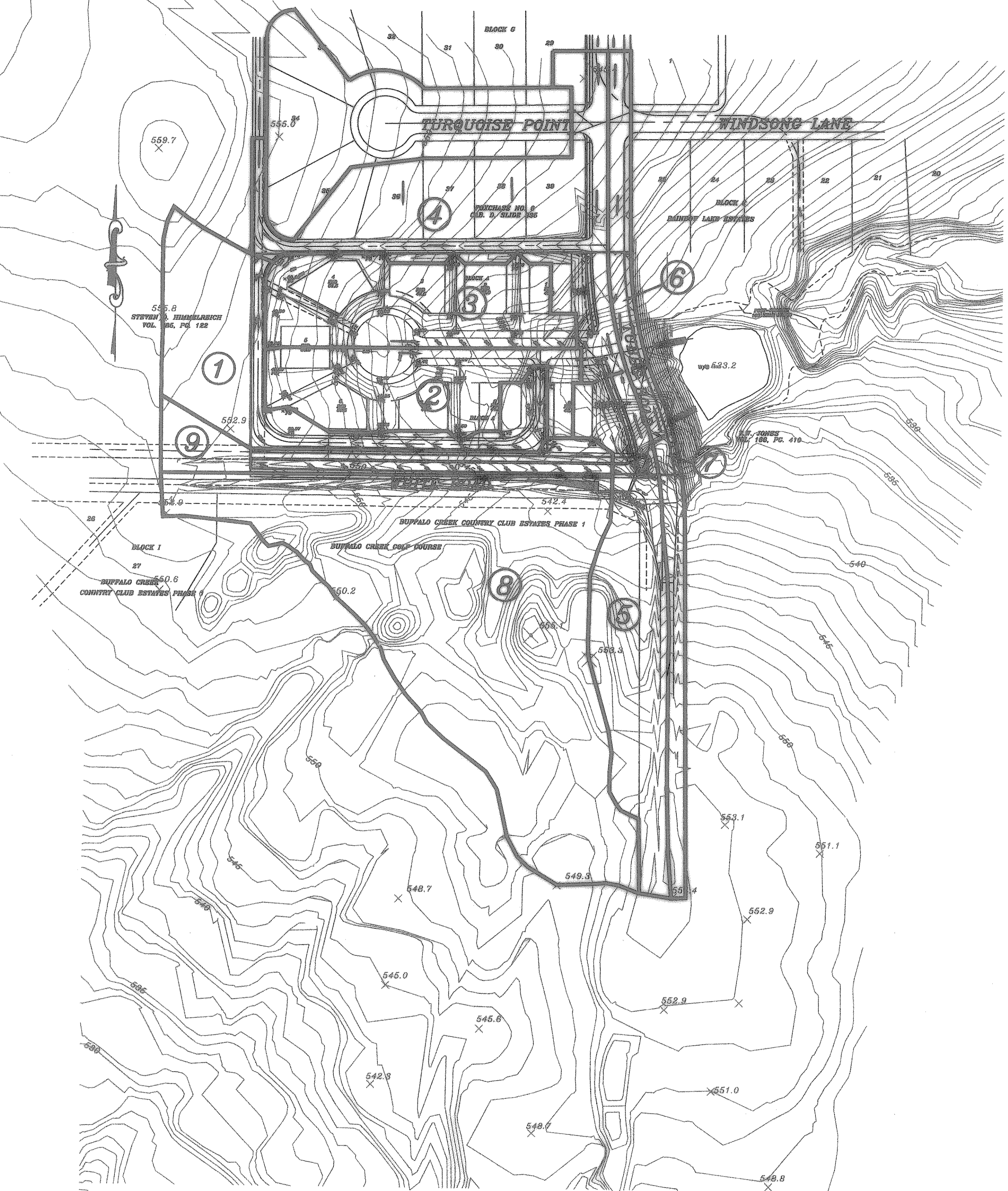


ULTIMATE DRAINAGE AREAS



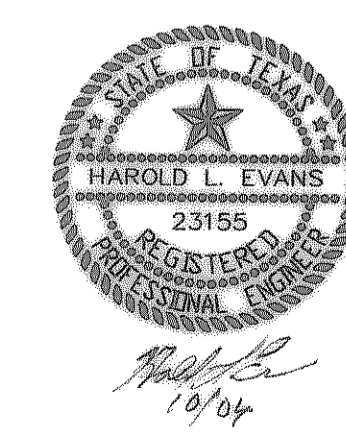
ULTIMATE CONDITIONS DRAINAGE TABLE

| DRAINAGE AREA NO. | ACRES | T.C. | C | I 100 YR. | Q 100 YR. | SUM Q 100 YR. |
|-------------------|-------|------|------|-----------|-----------|---------------|
| 1 | 1.35 | 10 | 0.5 | 9.8 | 6.62 | |
| 2 | 1.08 | " | " | " | 5.29 | 11.91 |
| 3 | 1.22 | " | " | " | 5.96 | 17.89 |
| 4 | 1.95 | " | " | " | 9.56 | 27.45 |
| 5 | 1.43 | " | " | " | 7.01 | 34.46 |
| 6 | 0.34 | " | " | " | 1.67 | 36.13 |
| 7 | 0.48 | " | " | " | 2.35 | 38.48 |
| 8 (GOLF COURSE) | 4.26 | " | 0.35 | " | 14.61 | 53.09 |
| 9 | 0.68 | " | 0.9 | " | 3.33 | 56.42 |

CITY OF ROCKWALL, TEXAS PROJECT NAME: FOXCHASE NO. 7 BY: HAROLD L. EVANS DATE: 6/9/04

INLET DESIGN CALCULATIONS

| INLET | | AREA Q = CIA | | | | | | SELECTED INLET | | | | | | | |
|-------|----------|--------------------------------|---------------------|---------------------|-------------------|------------|--------------|---|----------------------------|-----------------|--------------|------------|-------------------|------|---|
| NO. | LOCATION | DESIGN STORM FREQUENCY (years) | TIME OF CONC. (min) | INTENSITY I (in/hr) | RUNOFF COEFF. (C) | AREA (ac.) | "q" (c.f.s.) | CARRY-OVER FROM UPSTREAM INLET (c.f.s.) | TOTAL GUTTER FLOW (c.f.s.) | GUTTER CAPACITY | GUTTER SLOPE | CROWN TYPE | LENGTH "L" (Feet) | TYPE | CARRY-OVER TO DOWNSTREAM INLET (c.f.s.) |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| A-1 | 1+54.88 | 100 | 10 | 9.8 | 0.50 | 2.42 | 11.91 | --- | 11.91 | 20.70 | .03004 | TRIANGULAR | 20' | CURB | --- |
| A-2 | 1+42 | " | " | " | " | 1.22 | 5.98 | --- | 5.98 | 19.98 | .02874 | TRIANGULAR | 10' | CURB | --- |
| A-3 | 1+10 | " | " | " | " | 2.31 | 11.32 | --- | 16.57 | 28.0 | SAG | TRIANGULAR | 15' | CURB | --- |
| A-4 | 0+65 | " | " | " | " | 0.62 | 4.02 | --- | 4.02 | 6.96 | SAG | TRIANGULAR | 5' | CURB | --- |
| B-1 | 2+20 | " | " | " | " | 4.26 | 14.61 | --- | 14.61 | 18.20 | .0146 | TRIANGULAR | 20' | CURB | --- |
| B-2 | 1+86 | " | " | " | " | 0.68 | 3.33 | --- | 3.33 | 25.56 | .02846 | TRIANGULAR | 10' | CURB | --- |



| | | | | |
|---|--------------------|--|----------------------|--------------------------------|
| <p>HAROLD L. EVANS CONSULTING ENGINEER P.O. BOX 570365 2551 GUS THOMASSON ROAD, SUITE 102 DALLAS, TEXAS 75270, (214) 328-8133</p> | | <p>DRAINAGE AREA MAP ULTIMATE CONDITIONS FOXCHASE NO. 7 CITY OF ROCKWALL</p> | | <p>SHEET NO. 6A 11</p> |
| <p>REV. 6/9/04</p> | <p>DATE 9/9/03</p> | <p>SCALE 1" = 100'</p> | <p>DESIGN H.L.E.</p> | <p>JOB NO. 98111</p> |
| <p>REVISION DESCRIPTION</p> | | <p>DRAWN</p> | | |

C:\PROJECTS\FOX\FOX_7\F07X7.DWG, 09/24/04, 11:08:27 AM