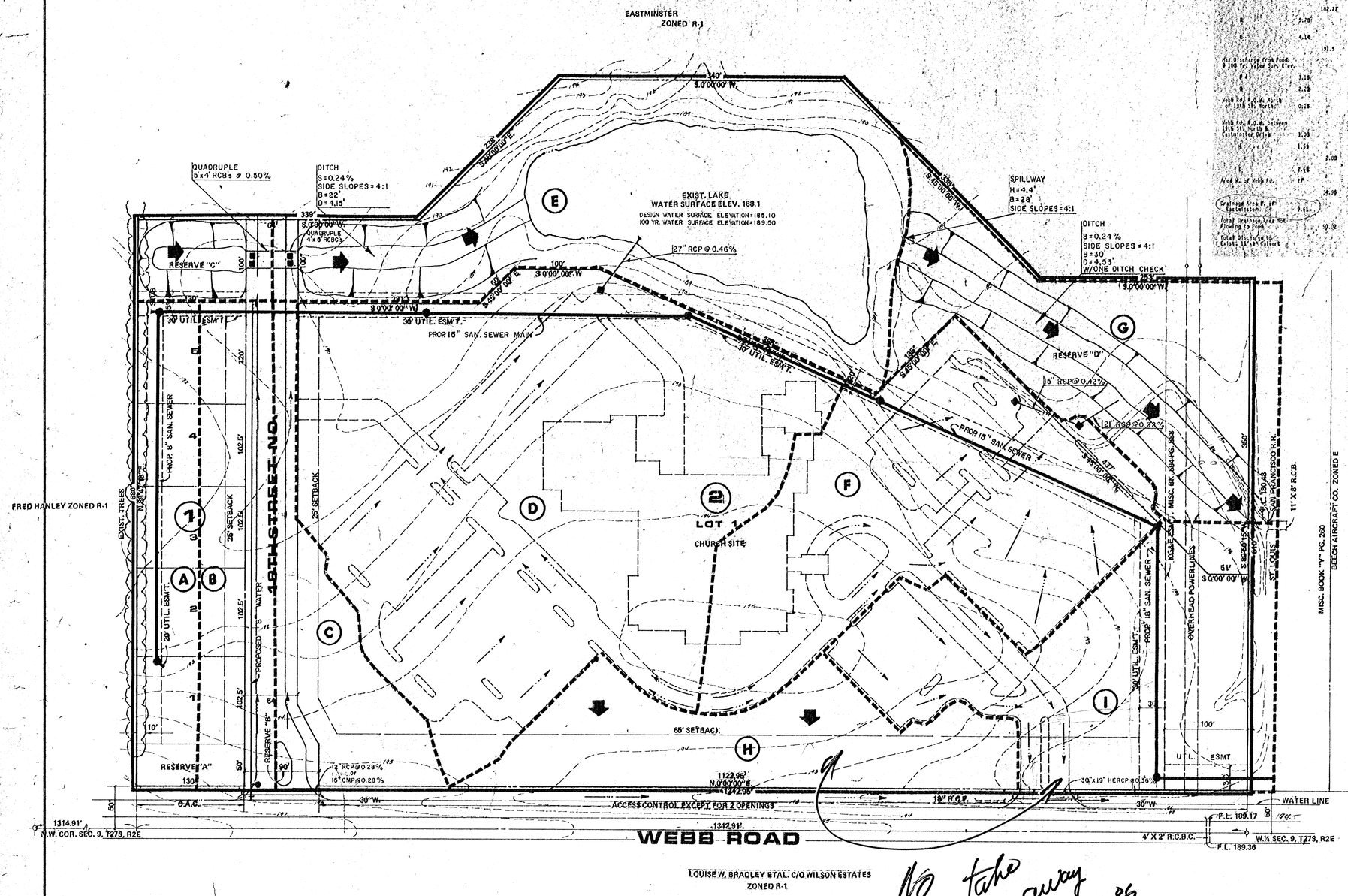



| EASTMINSTER | AREA (acres) | AREA ACCUM. | C | $T_c$ (min) | $I_2$ (in/hr) | $I_5$ (in/hr) | $I_{100}$ (in/hr) | $Q_2$ (cfs) | $Q_5$ (cfs) | $Q_{100}$ (cfs) | PIPE SIZE | PIPE SLOPE | INLETS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 5.31 | | 0.6 | 22 | 3.49 | 4.49 | 7.74 | 1.9 | 2.5 | 6.2 | | | |
| B | 1.30 | | 0.6 | 20 | 3.63 | 4.66 | 8.03 | 2.8 | 3.6 | 9.3 | | | 1-L(+10') |
| C | 1.06 | | 0.6 | 20 | 3.63 | 4.66 | 8.03 | 2.3 | 3.0 | 7.6 | | | 1-L(+10') |
| Drainage Area North of Eastminster | 1.8 | | 0.61 | 33 | | | 6.30 | | | 692.2 | 6-5'x4' RCB's | 0.40% | |
| | | 182.27 | 0.61 | 33 | | | 6.30 | | | 700.0 | | | |
| D | 9.78 | | 0.7 | 18 | 4.08 | 5.21 | 8.98 | 18.4 | 23.3 | 38.3 | 24" RCP<br>27" RCP | 0.86%<br>0.46% | 4'x4' Area |
| E | 4.14 | | 0.6 | 15 | 4.06 | 5.21 | 8.98 | 10.1 | 12.9 | 22.3 | | | |
| | | 191.5 | 0.61 | 33 | | | 6.16 | | | 739.6 | | | |
| Ave. Discharge from Pond @ 100 Yr. Water Surf. Elev. | | | | | | | | | | 852. | | | |
| F 1 | 3.16 | | 0.7 | 15 | 4.06 | 5.21 | 8.98 | 9.0 | 11.5 | 19.9 | 21" RCP | 0.50% | 2'x4' Area |
| G | 2.28 | | 0.6 | 15 | 4.06 | 5.21 | 8.98 | 6.6 | 7.2 | 12.3 | | | |
| Webb Rd. R.O.W. North of 18th St. North | 0.58 | | 0.9 | 15 | 4.06 | 5.21 | 8.98 | 1.9 | 1.2 | 2.1 | 12" RCP<br>15" CMP | 0.28% | |
| Webb Rd. R.O.W. Between 18th St. North & Eastminster Drive | 1.03 | | 0.7 | 15 | 3.79 | 4.76 | 8.19 | 2.7 | 3.4 | 5.9 | | | |
| H | 1.56 | | 0.6 | 17 | 3.86 | 4.97 | 8.55 | 3.7 | 4.7 | 8.4 | | | |
| | | 2.08 | 0.68 | 15 | 3.79 | 4.76 | 8.19 | 7.1 | 9.1 | 15.6 | 30"x19" HERCP | 0.40% | |
| I | 2.68 | | 0.6 | 15 | 4.06 | 5.21 | 8.98 | 5.7 | 8.4 | 14.4 | | | |
| Area W. of Webb Rd. | .17 | | 0.5 | 20 | | | 6.79 | | | 91.8 | | | |
| | | 19.09 | 0.58 | 31 | | | 6.62 | | | 129.8 | | | |
| Drainage Area E. of Eastminster | 0.61 | | 0.7 | 19 | | | 8.19 | | | 35.1 | | | |
| Total Drainage Area Not Flowing to Pond | 20.02 | 0.57 | 48 | | | | 4.70 | | | 134.4 | | | |
| Total Discharge to Exist. Lake Culvert | | | | | | | | | | 208.4 | | | |

What is the Capacity of the Existg Culvert?

## NOTES

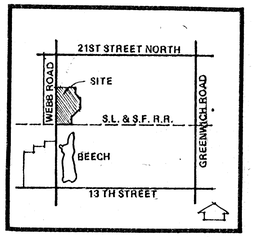
TOPOGRAPHIC SURVEY PREPARED BY MOEHRING & ASSOC, SEPT. 17, 1989

BENCH MARK: CITY STD. DISC. N.E. COR. R.C.B.C. 80' N. OF S.L. & S.F.R.R. NEAR THE W. ¼ COR. OF SEC. 9. ELEV. 193.15, CITY DATUM

RESERVES "A" & "B" ARE FOR UTILITIES, DRAINAGE, LANDSCAPING AND ENTRY MONUMENTS.

RESERVE "C" & D" FOR DRAINAGE', UTIL. AND LANDSCAPING

GAS SERVICE 8" LINE DEAD ENDS 42' S. OF 21ST ST. NO. & 36' W. OF C/L OF WEBB ROAD.




LOCATION MAP

No take drainage away from Webb
CAS 5-11-86

# DRAINAGE & UTILITY PLAN

# EASTMINSTER

OWNER: EASTMINSTER UNITED PRESBYTERIAN CHURCH 2202 E. 37TH WICHITA, KANSAS

SCALE: 1"=60'

BILL G. YUNG DESIGN
8225 E. 35TH. ST. NORTH, WICHITA, KS. 67226 316-683-5567

date 12/28/85
rev. JAN. 3, 1986

sheet title
PRELIMINARY PLAT

project
EASTMINSTER