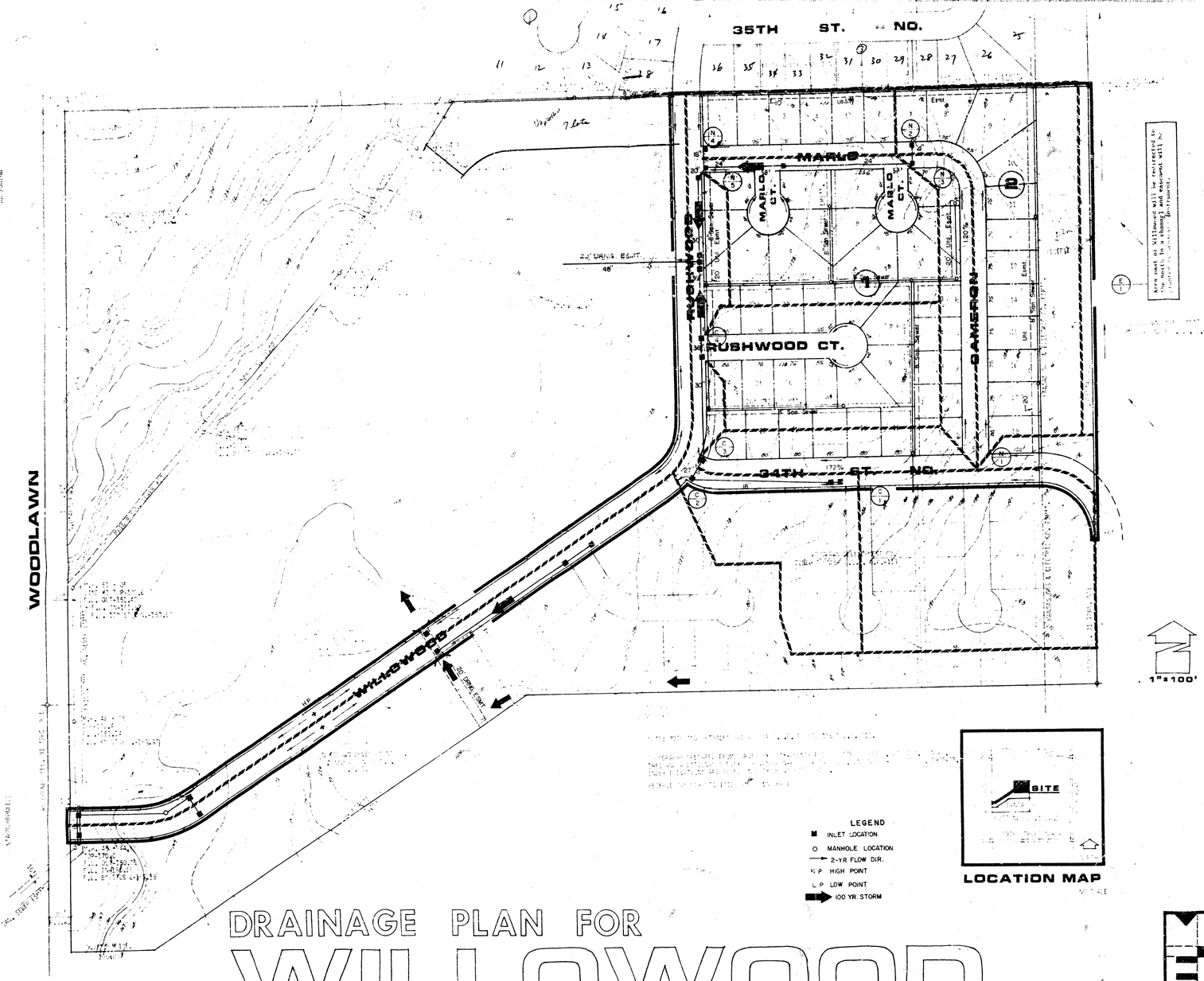


# DRAINAGE PLAN FOR WILLOWOOD

MID-KANSAS ENGINEERING CONSULTANTS PA
240 NORTH ROCK ROAD
SUITE 130
WICHITA, KANSAS 67206
682-6561

WILLOWOOD
(DRAINAGE)

## LETTER OF TRANSMITTAL

MID-KANSAS ENGINEERING CONSULTANTS
240 NORTH ROCK ROAD SUITE 130
WICHITA, KANSAS 67206

PROJECT: Willowood
DATE: 1-3-84
JOB NO:

TO: Mr. Chris Breitenstein
Drainage & Flood Control Engineer
455 North Main - 7th Floor
Wichita, Kansas 67202

We are sending you the following items ☒ attached ☐ under separate cover via

☒ PRINTS ☐ SPECIFICATIONS ☐ LEGAL DESCRIPTIONS ☐ TRACINGS
☐ PETITIONS ☐ CORRESPONDENCE ☐ OTHER

These are transmitted as checked below.

☐ FOR YOUR APPROVAL ☒ FOR YOUR USE ☐ APPROVED AS NOTED
☐ AS REQUESTED ☐ FOR YOUR FILES ☐ FOR REVIEW AND COMMENT
☐ OTHER

REMARKS: Transmitted herewith is the final drainage plan.

COPIES TO:

Signed: Michael D. Harding
Michael D. Harding, P.E.

| Willowood - Phase I | Area | Area Accum | C | $T_c$ | $L_2$ | $L_{100}$ | $Q_2$ (cfs) | $Q_{100}$ | Proj. Pt. Slope | Pipe Size/ Class | Inlet |
|---|---|---|---|---|---|---|---|---|---|---|---|
| N 1 | 0.9 | | 0.5 | 15 | 4.06 | 8.98 | 1.8 | 4.0 | 1.2% | | |
| N 2 | 5.1 | | 0.5 | | | | | | | | |
| | | 6.0 | 0.5 | 20 | 3.63 | 8.03 | 10.9 | 24.1 | | 21" @ 0.4% | 286' |
| N 3 | 1.3 | | 0.6 | 18 | 3.78 | 8.37 | 2.9 | 6.5 | | | |
| | | 7.3 | 0.52 | 20 | 3.63 | 8.03 | 13.8 | 30.5 | | 24" @ 0.4% | 185' |
| N 4 | 1.5 | | 0.5 | 15 | 4.06 | 8.98 | 3.0 | 6.7 | | 18" | 185' |
| N 5 | 3.8 | | 0.5 | 18 | 3.78 | 8.37 | 7.2 | 15.9 | | | 286' |
| | | 12.6 | 0.51 | 22 | 3.49 | 7.74 | 22.4 | 49.7 | | 30" @ 0.22% | |
| C 1 | 5.0 | | 0.5 | 18 | 3.78 | 8.37 | 9.4 | 20.9 | | 18" @ 0.8% | 286' |
| C 2 | 2.7 | | 0.5 | 18 | 3.78 | 8.37 | | | | | |
| | | 7.7 | 0.5 | 20 | 3.63 | 8.03 | 14.0 | 30.9 | | 27" @ 0.4% | 286' |
| C 3 | 1.4 | | 0.6 | 15 | 4.06 | 8.98 | | | | | |
| | | 9.1 | 0.52 | 20 | 3.63 | 8.03 | 17.0 | 28.0 | | 30" @ 0.22% | 285' |
| C 4 | 3.4 | | 0.5 | 18 | 3.78 | 8.37 | | | | | |
| | | 12.5 | 0.51 | 22 | 3.49 | 8.03 | 22.0 | 51.2 | | 36" @ 0.22% | 285' |

S 1 Contour set by 100 yr. Discharge from Fairfield 200 cfs. 2-25'x8'