DRAINAGE PLAN FOR
"WOODLAND GLEN"
AN ADDITION TO SEDGWICK COUNTY, KANSAS
IN THE SW 1/4 OF SECTION 32, T26S, R1E OF THE 6TH P.M.

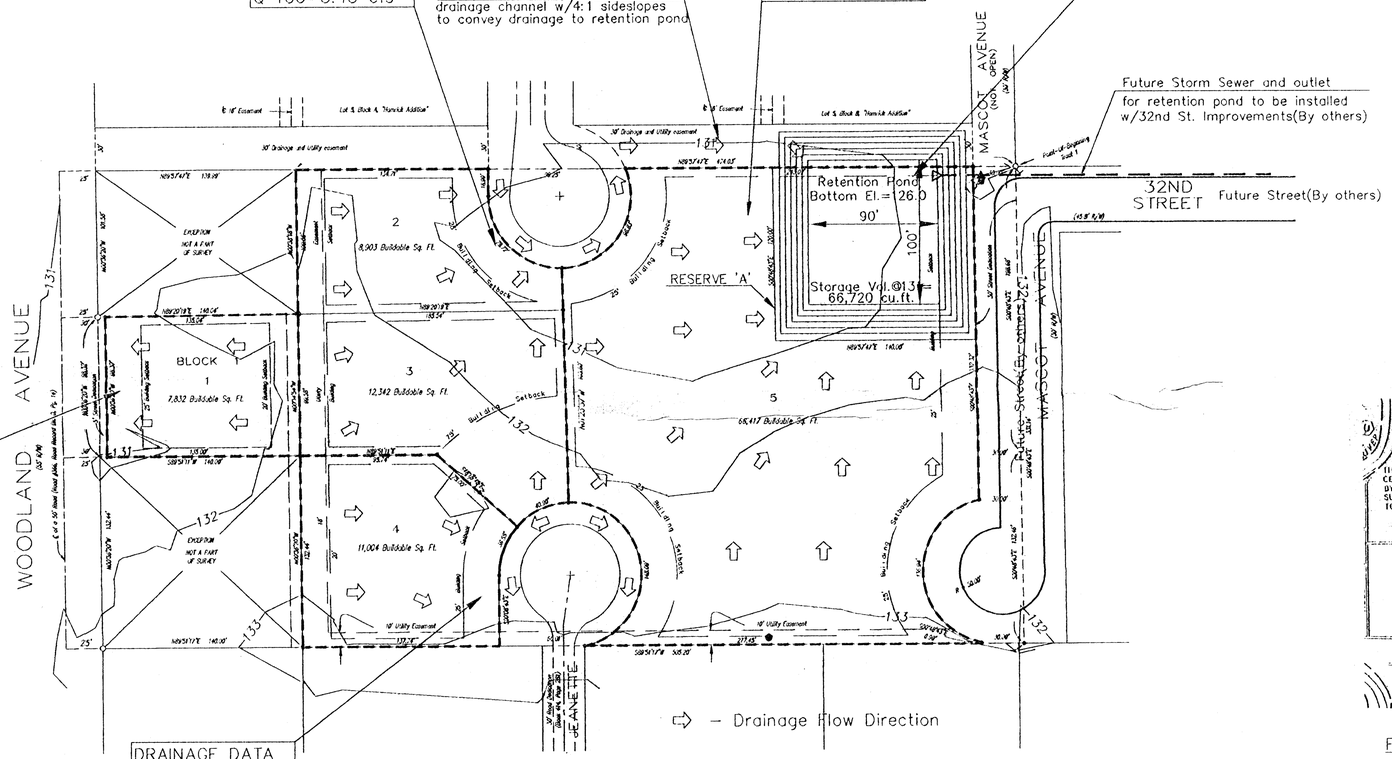
DRAINAGE DATA
Area=0.85 acres
SCS Soil Type B
C = 0.45
Tc = 15 min.
i 100=8.98 "/hr.
Q 100=3.43 cfs

Construct 4' flat bottom drainage channel w/4:1 sideslopes to convey drainage to retention pond

DRAINAGE DATA
Area=1.97 acres
SCS Soil Type B
C = 0.45
Tc = 15 min.
i 100=8.98"/hr.
Q 100=7.96 cfs

DRAINAGE DATA
Area=2.82 acres
C = 0.45
Tc = 15 min.
i 100=8.98"/hr.
Q 100=11.40 cfs
Retention Pond
P 100 = 7.8"
CN=75 S=3.33
SCS Q(runoff)=4.86 inches
Vol. Runoff=49,750 cu.ft.
Max. Stage=130.0

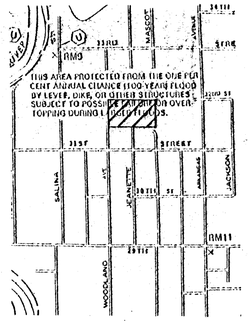
Pond Water depth=4.0 feet for 100 yr. precip.
SCS Soil Type B(Urban land-Canadian complex)
Soil permeability=2.0-6.0 in./hr.(From SCS Soil Survey)
Time to empty by percolation=4.0'x12/2"/hr.=24 hours.
NOTE:
(Retention pond will be converted into detention pond at a future date when storm sewer improvements are installed in with 32nd Street paving improvements.)



DRAINAGE DATA
Area=0.31 acres
SCS Soil Type B
C = 0.45
Tc = 15 min.
i 100=8.98"/hr.
Q 100=1.25 cfs

DRAINAGE DATA
Area=0.41 acres
SCS Soil Type B
C = 0.45
Tc = 15 min.
i 100=8.98"/hr.
Q 100=1.66 cfs

⇨ – Drainage Flow Direction



FEMA FLOODPLAIN MAP

PROPOSED LAND USE:
One rresidence per lot with remainder of lot to be lawn.

LEGEND:
● = #4 Rebar Set with I.D. Cap "TTLSI CLS22"
○ = Monument Found
▲ = Bench Mark
Bearing Basis Assumed

BENCH MARK:
Railroad Spike in HLP, Northeast corner of Proposed "Woodland Glen"
Elevation: 132.32' City Datum

OTHER EASEMENTS:
"Woodland Glen" lies within the KGE Easements for pole line called out in Misc. Bk. 165, Pg. 342, and in Misc. Bk. 168, Pg. 355.

SETBACKS:
Side-yard building setbacks are 6' unless otherwise noted.

SCALE : 1" = 50'
0 50 100

TOPOGRAPHIC SURVEY BY:
TERRA TECH LAND SURVEYING INC.
239 North Ohio
Wichita, Kansas 67214-3933
(316) 267-0744 / 267-2348
Fax (316) 267-2736

11-17-99

DRAINAGE PLAN FOR
WOODLAND GLEN ADDITION
WICHITA, KS

CERTIFIED ENGINEERING DESIGN

CED
438 NORTH OHIO
WICHITA, KANSAS 67214
PH. (316)262-8808 FAX (316)262-0080

DESIGNED: HDF	SCALE: 1" = 50'	SHEET 1
DRAWN: CKW	DATE: 11-99	
CHECKED: HDF	CED FILE: wgdp.dwg	TOTAL 1