

1745 PPS

# 47TH STREET SOUTH

## STAGE STORAGE FOR RETENTION DAM

| Elev.            | Acres | Ac. Ft. |
|------------------|-------|---------|
| 59.0             | 0     | 0       |
| 60.0             | 0.041 | 0.0205  |
| 62.0             | 0.586 | 0.0647  |
| 64.0             | 1.692 | 2.782   |
| 66.0             | 3.168 | 7.642   |
| 68.0             | 4.740 | 15.550  |
| Top of Dike 70.0 | 5.850 | 26.140  |

### NOTE:

Flood routed 100yr 24hr storm with NRCS Site program 15.3 Ac. Ft. @ Elev. 68.0.

## RUNOFF FROM K-MART

Q5yr = 35 cfs  
Q100yr 24hr = 59 cfs  
Q38" x 24" HE STORM SEWER = 34 cfs  
C = 0.90 (DEVELOPED)

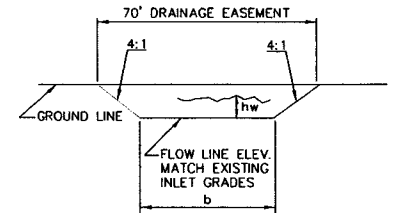
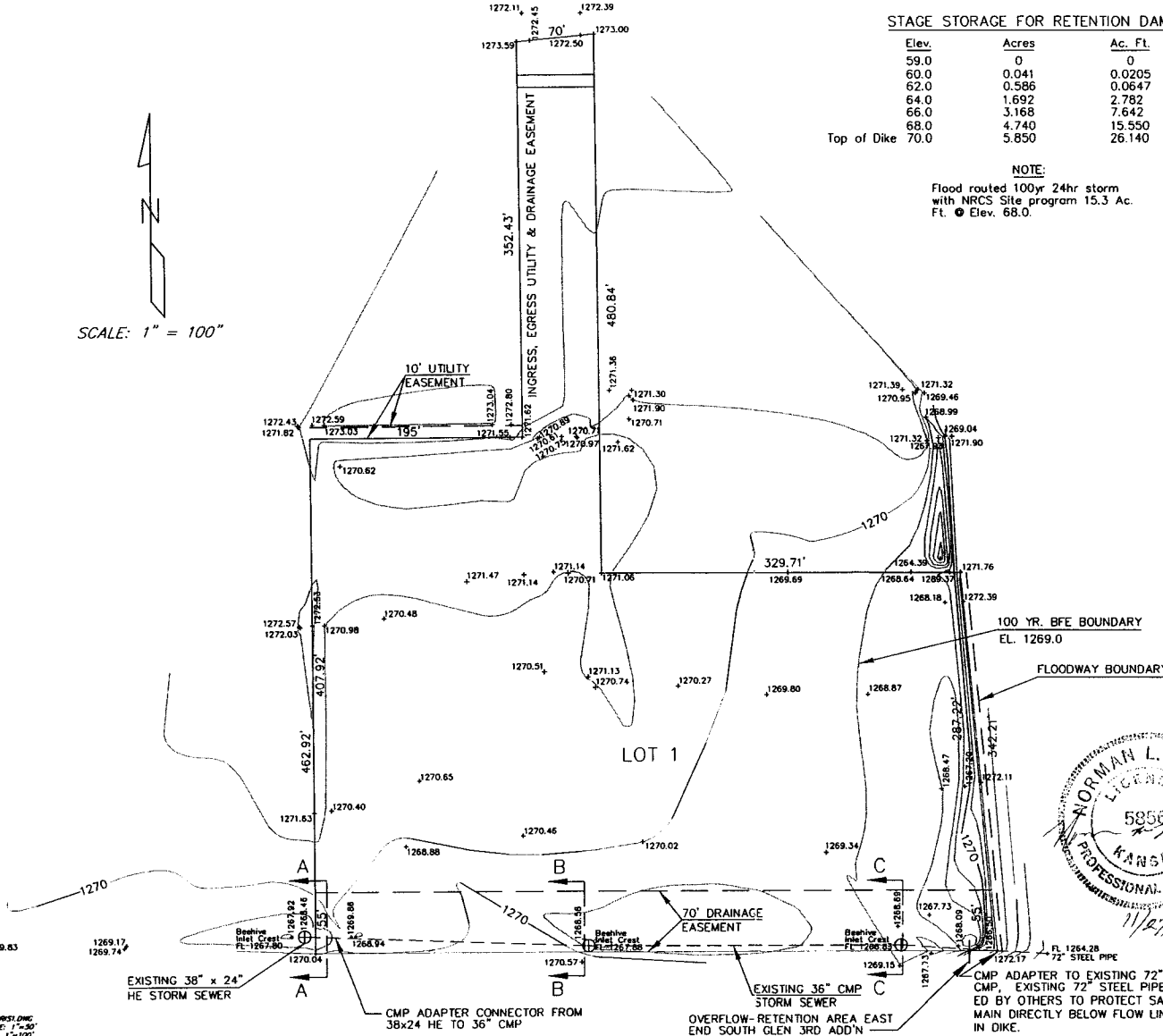
## RUNOFF FROM LOT 1

Q5yr = 18 cfs  
Q100yr 24 hr = 30 cfs  
Q 36" SPIRAL CMP = 35 cfs  
C = 0.90 (DEVELOPED)

## COMBINED

SEC. A-A Q<sub>s</sub> = 35 + 0 - 34 = 1 cfs  
SEC. A-A Q<sub>100</sub> = 59 + 0 - 34 = 25 cfs  
SEC. B-B Q<sub>s</sub> = 35 + 11 - 34 = 12 cfs  
SEC. B-B Q<sub>100</sub> = 59 + 19 - 34 = 44 cfs  
SEC. C-C Q<sub>s</sub> = 35 + 18 - 34 = 19 cfs  
SEC. C-C Q<sub>100</sub> = 59 + 30 - 34 = 55 cfs

SCALE: 1" = 100'



## TYPICAL SECTION OF DRAINAGE EASEMENT

NOT TO SCALE  
VEGETATED n = 0.30

|          | Q  | b   | hw   | s    |
|----------|----|-----|------|------|
| SEC. A-A | 25 | 50' | 0.5' | .001 |
| SEC. B-B | 44 | 64' | 0.6' | .001 |
| SEC. C-C | 55 | 64' | 0.7' | .001 |

REVISED: 11/20/06

AS BUILT

## DRAINAGE IMPROVEMENTS

47TH STREET SOUTH @ EMPORIA, LOT 1, SOUTH GLEN, 3RD ADDITION, SEDGWICK COUNTY, WICHITA, KANSAS.

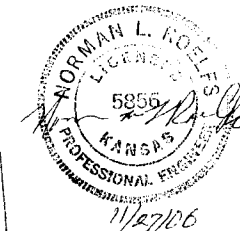
NLR & gb Engineering Technology

Design, Survey, Cadd & Construction

10405 Ringer Drive  
Wichita, Kansas 67209  
Phone: (316) 722-8517

| SCALE:    | DATE:      | PROJ. NO.: | DES.: | DWG.: | CAD.: | APP.: |
|-----------|------------|------------|-------|-------|-------|-------|
| 1" = 100' | APRIL 2006 | 30093-KS   | NLR   | GB    | NLR   | NLR   |

Sheet 1 of 1



CMP ADAPTER TO EXISTING 72" WSP FROM 36" CMP, EXISTING 72" STEEL PIPE OUTLET, INSTALL BY OTHERS TO PROTECT SANITARY SEWER MAIN DIRECTLY BELOW FLOW LINE OF PIPE IN DIKE.

OVERFLOW-RETENTION AREA EAST END SOUTH GLEN 3RD ADD'N

CMP ADAPTER CONNECTOR FROM 38x24 HE TO 36" CMP

EXISTING 38" x 24" HE STORM SEWER

SURV. NR/GB PLOT CADD DES. DR. GB TR. NLR CNG. NLR/GB APP. NLR Last Plot-Date: 11/20/06

30093-KS-001  
PROJ. SCALE: 1"=30'  
PLOT SCALE: 1"=100'