

MEMO

TO: Chris Breitenstein, P.E. PROJECT NO. 36-81261-1338
Drainage Engineer City Hall - 7th Floor PROJECT: Triple "J" Addition
455 N. Main Wichita, Kansas 67202 FPS

FROM: Charles S. Brown, P.E. DATE: September 30, 1981

REFERENCE: Revised Drainage Plan

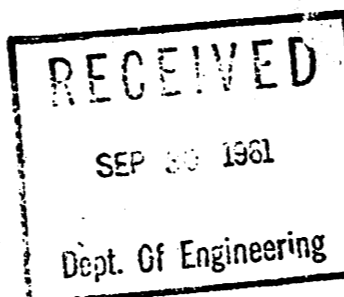
PLEASE ADVISE IMMEDIATELY OF ANY MISCONCEPTIONS OR OMISSIONS YOU BELIEVE TO BE OBTAINED HEREIN.

As discussed by phone today, we are transmitting herewith 2 prints of the Revised Drainage Plan for Triple "J" Addition to Wichita.

The Revision consists of adding a 15' private drainage easement along the east property line of the plat to facilitate a future "V" ditch to drain northward to the proposed channel. A copy of our calculations are enclosed showing the hydraulic characteristics of this "V" ditch.

Also enclosed in a copy of our calculations showing the proposed channel size and the need for a 50' drainage easement at the northeast of the Triple "J" property.

Drainage O.K. Hold for O&M Comments



Date: Sept 30, 1981 Page 1 of 2
Project: Triple "J"
Item: East P Drainage Easmt.

Determine ditch size at east P

C = 0.9
D.A. = 3.47 Ac
tc = 250' pavement @ 1% avg slope = 5 min
Ic = 8.00

Qc = C Ic A
= 0.9 x 8.00 x 3.47
= 25 cfs

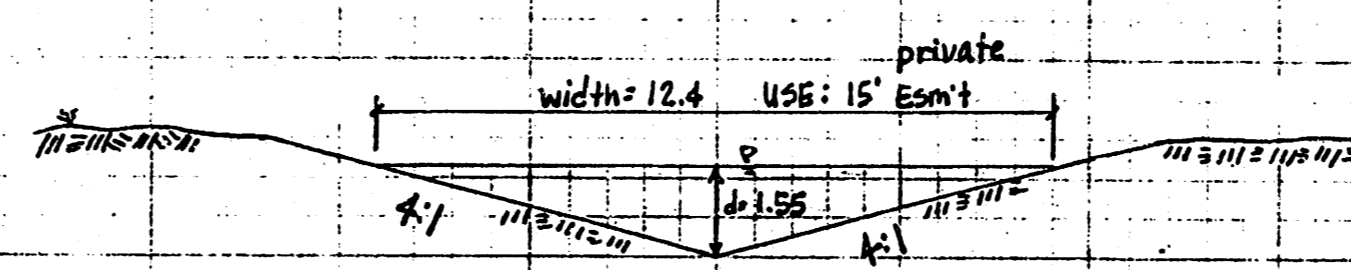


Table with columns: d, A, P, R, R^2, AR^2. Values for d from 1.0' to 1.5'.



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Project: Triple "J"
Item: East P Drainage Easmt

Alternate Section:

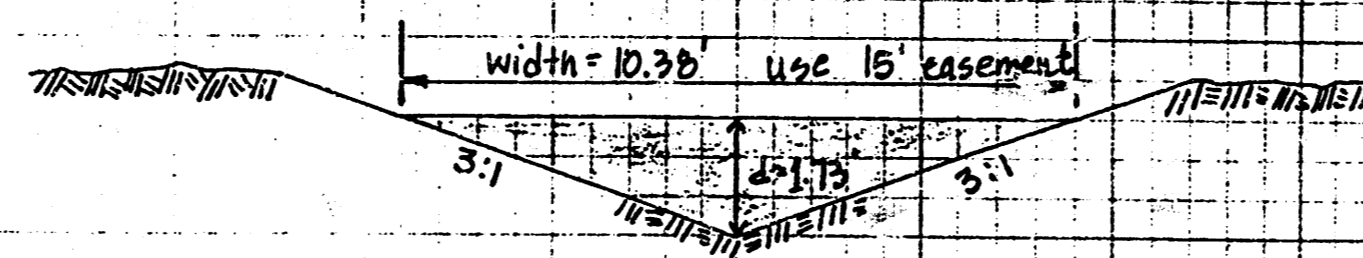
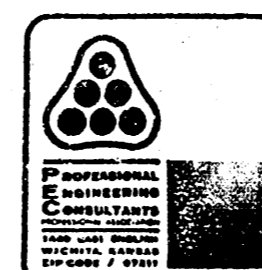


Table with columns: d, A, P, R, R^2, AR^2. Values for d from 1.6' to 1.8'.

USE: 4:1 V Ditch, d = 1.55, w = 12.4', V = 2.6 fps, 15' Easmt.



Date: 9-19-81 Page 3 of 3
Project: TRIPLE "J"
Item:

Determine Runoff @ West End Eyed "K-Nail" Ditch

D.A. = 13.4 Ac
C = 0.9
tc = 500' pavement @ 1% = 9 min
+ 400' channel @ 3 fps = 2/11 min
OR 700' turf @ 0.7% = 20 min
USE 11 min
I100 = 10.14

Q100 = C I100 A = 0.9 x 10.14 x 13.4 = 122 cfs

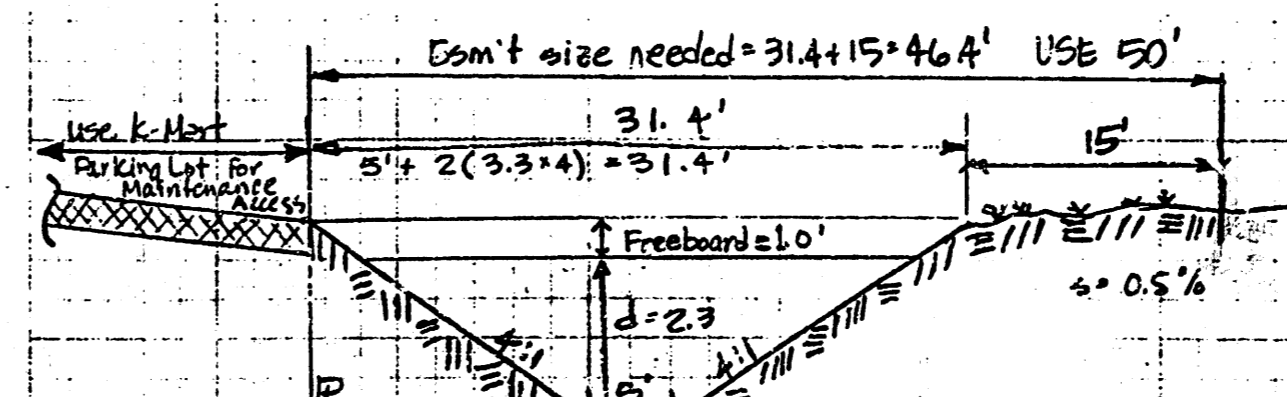


Table with columns: d, A, P, R, R^2, AR^2. Values for d from 3' to 3.5'.